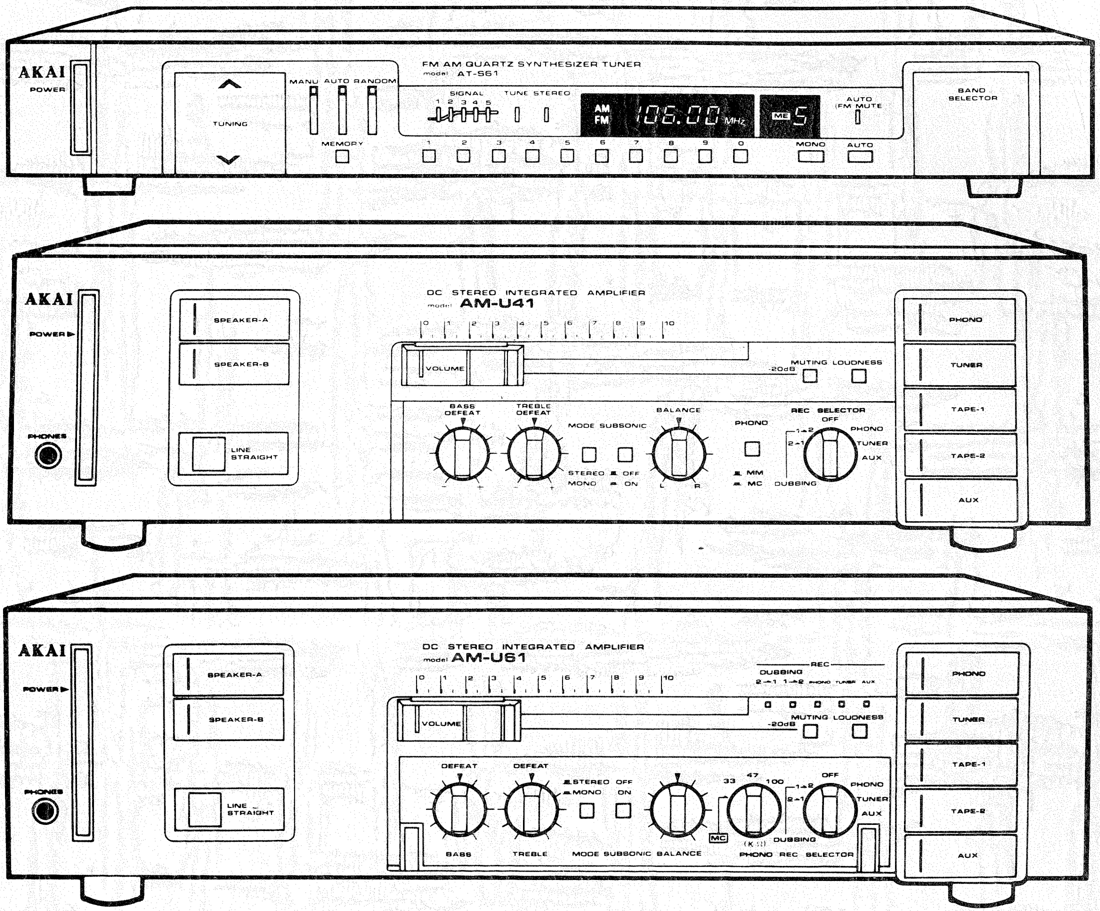
AKAI SERVICE MANUAL


AKAI
POWER
TUNING
MANU AUTO RANDOM
MEMORY
FM AM QUARTZ SYNTHESIZER TUNER
model AT-S61
SIGNAL 1 2 3 4 5
TUNE STEREO
AM FM
106.00 MHz
ME 5
AUTO (FM MUTE
1 2 3 4 5 6 7 8 9 0
MONO
AUTO
BAND SELECTOR
AKAI
POWER
PHONES
SPEAKER-A
SPEAKER-B
LINE STRAIGHT
DC STEREO INTEGRATED AMPLIFIER
model AM-U41
0 1 2 3 4 5 6 7 8 9 10
VOLUME
MUTING LOUDNESS
-20dB
BASS DEFEAT
TREBLE DEFEAT
MODE SUBSONIC
STEREO OFF
MONO ON
BALANCE
L R
PHONO
MM
MC
REC SELECTOR
OFF
1→2
2→1
DUBBING
PHONO
TUNER
AUX
PHONO
TUNER
TAPE-1
TAPE-2
AUX
AKAI
POWER
PHONES
SPEAKER-A
SPEAKER-B
LINE STRAIGHT
DC STEREO INTEGRATED AMPLIFIER
model AM-U61
0 1 2 3 4 5 6 7 8 9 10
VOLUME
REC
DUBBING
2→1 1→2 PHONO TUNER AUX
MUTING LOUDNESS
-20dB
DEFEAT
DEFEAT
STEREO OFF
MONO ON
33 47 100
MC
OFF
1→2
2→1
PHONO
TUNER
AUX
DUBBING
BASS
TREBLE
MODE SUBSONIC
BALANCE
PHONO
REC SELECTOR
PHONO
TUNER
TAPE-1
TAPE-2
AUX

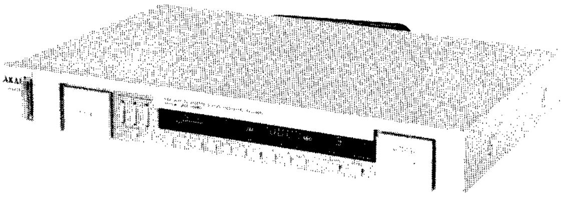
FM AM QUARTZ SYNTHESIZER TUNER

MODEL AT-S61/L/J

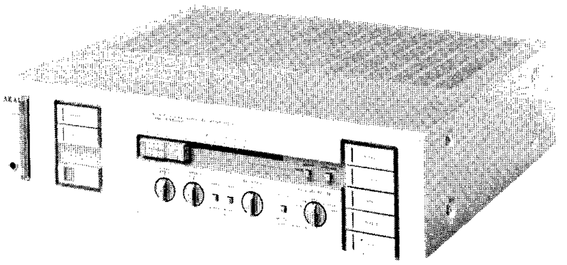
DC STEREO INTEGRATED AMPLIFIER

AM-U41

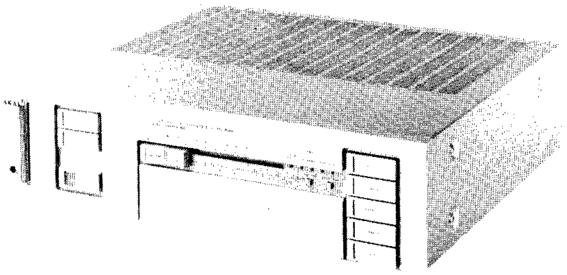
MODEL AM-U61



AT-S61/L/J



AM-U41



AM-U61

FM AM QUARTZ SYNTHESIZER TUNER
MODEL AT-S61/L/J

DC STEREO INTEGRATED AMPLIFIER
MODEL AM-U41

DC STEREO INTEGRATED AMPLIFIER
MODEL AM-U61

This manual is applicable to both silver and pearl shadow panel models.

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SECTION 4 SCHEMATIC DIAGRAM 70

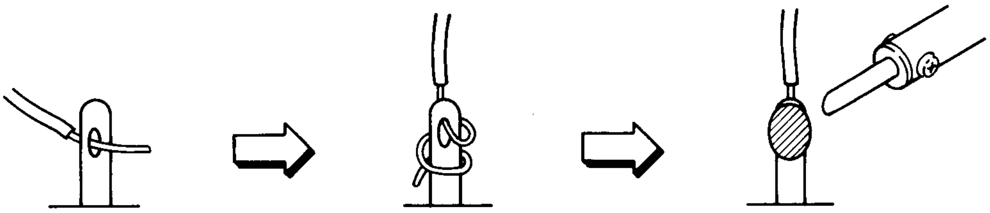
SAFETY INSTRUCTION

SAFETY CHECK AFTER SERVICING

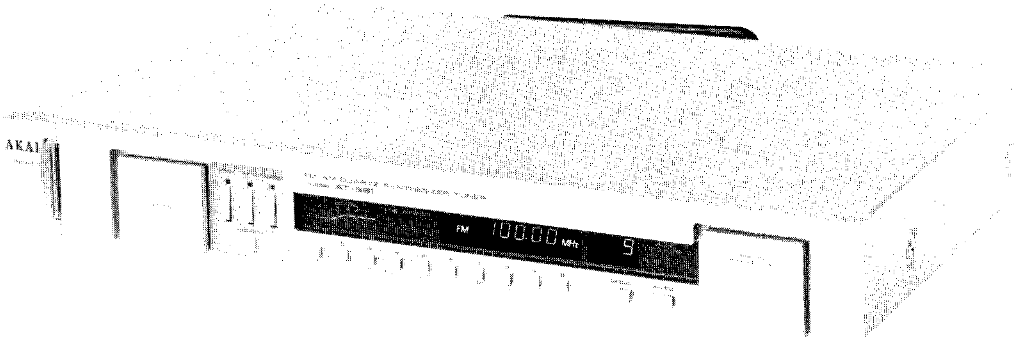
Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for $\boxed{C}$ or $\boxed{A}$, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.



SECTION 1

SERVICE MANUAL

MODEL AT-S61/L/J

This manual is applicable to both silver and pearl shadow panel models.

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  2. COMPOSITION OF VARIOUS P.C BOARDS 21

For basic adjustment, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

FM TUNER SECTION

TUNING FREQUENCY RANGE	87.4 to 108.1 MHz (Except JAPAN) 76 to 90 MHz
SENSITIVITY USABLE (S/N = 30 dB, MONO) QUIETING (S/N = 50 dB, Mono/Stereo)	 11.2 dBf 16.2/37.2 dBf
CAPTURE RATIO	1.0 dB
SELECTIVITY (±400 kHz)	75 dB
IMAGE REJECTION	95 dB
IF REJECTION	110 dB
SPURIOUS REJECTION	100 dB
AM SUPPRESSION	65 dB
SUB CARRIER SUPPRESSION	65 dB
S/N (Mono/Stereo)	78/70 dB
T.H.D. (±75 kHz DEVIATION, Mono/Stereo)	0.06/0.09%
STEREO SEPARATION (1 kHz)	55 dB
FREQUENCY RESPONSE	25 Hz to 15 kHz +0.5 dB, -1 dB
OUTPUT LEVEL (FM, 100% MODULATION)	 550 mV
ANTENNA INPUT IMPEDANCE	75 ohms

AM TUNER SECTION

	AM (MW for AT-S61L)	LW (AT-S61L only)
TUNING FREQUENCY RANGE		
USA AND CANADA	530 to 1610 kHz	-
OTHERS	522 to 1611 kHz	137 to 362 kHz
USABLE SENSITIVITY (LOOP)	300 μV/m	800 μV/m
SELECTIVITY	35 dB	40 dB
IMAGE REJECTION	45 dB	45 dB
IF REJECTION	65 dB	65 dB
S/N	40 dB	34 dB
T.H.D.	1.0%	2.0%

OUTPUT SECTION

OUTPUT IMPEDANCE	3.3 k ohms

OTHERS

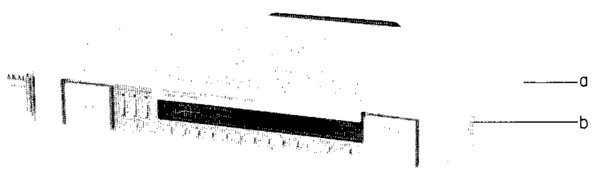
POWER REQUIREMENTS	100V, 50/60 Hz for Japan 120V, 60 Hz for USA and Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110V/220V/240V, 50/60 Hz switchable for other countries
POWER CONSUMPTION	13W
DIMENSIONS	440 (W) x 63 (H) x 273 (D) mm (17.3 x 2.5 x 10.7 inches)
WEIGHT	3.3 kg (7.3 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

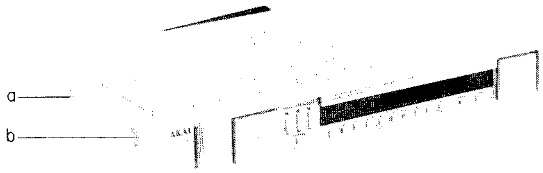
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs.
Reassemble in reverse order.

1



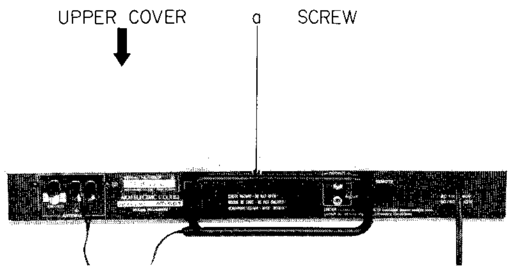
SCREWS

2

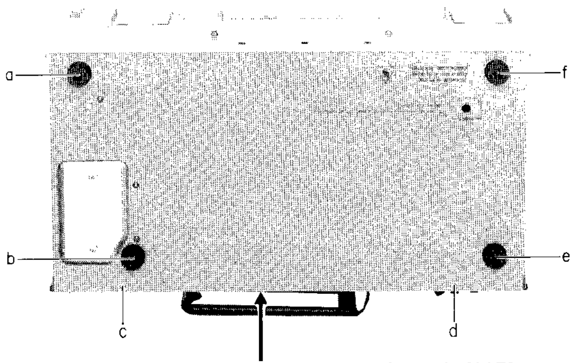


SCREWS

3

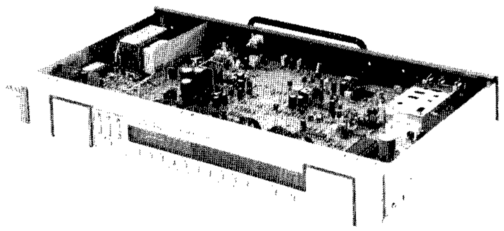

UPPER COVER
a
SCREW

4



BOTTOM COVER SCREWS FOOTS

5



III. CONTROLS

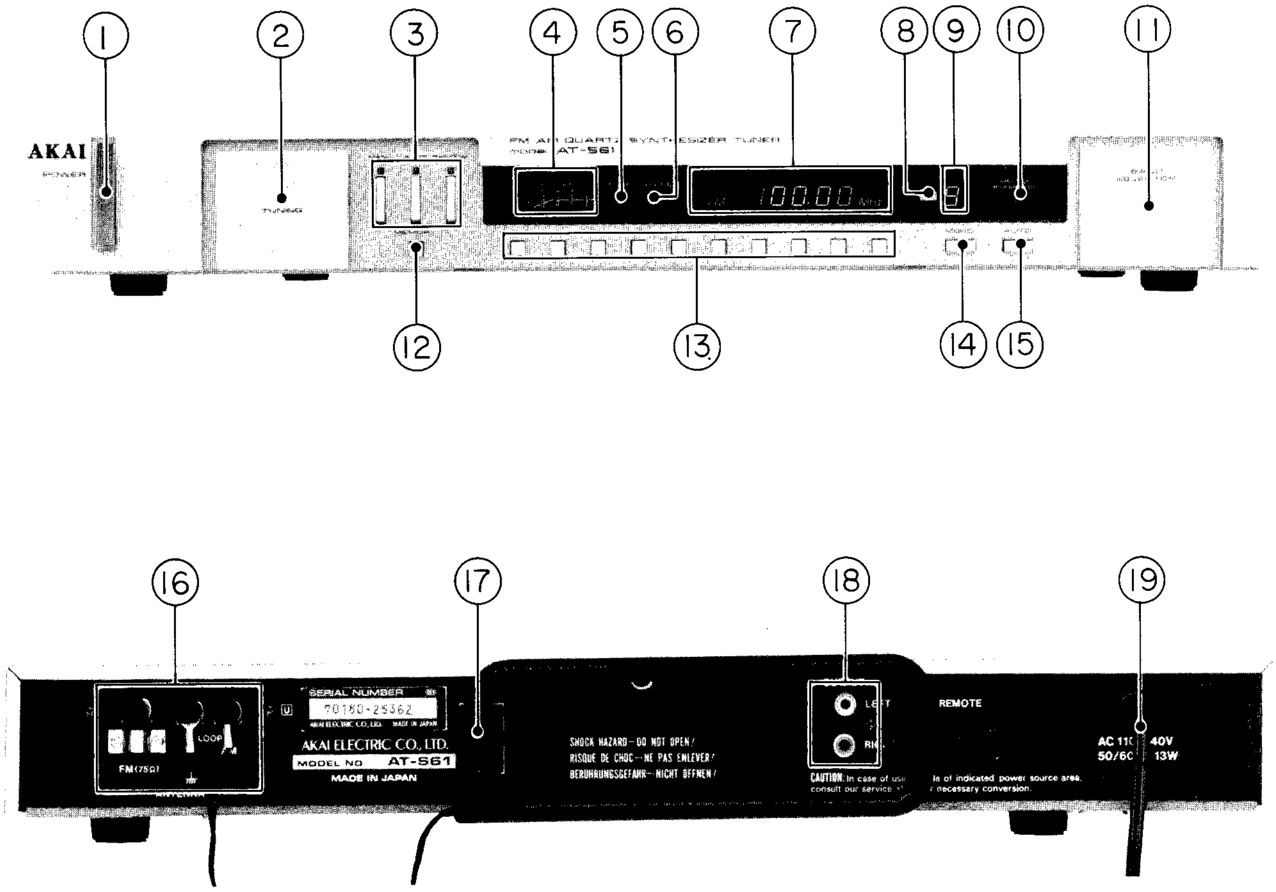
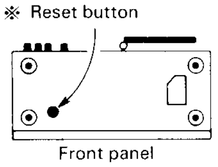

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
AKAI
POWER
TUNING
AT-S61
100.00
SERIAL NUMBER
70180-25362
AKAI ELECTRIC CO., LTD.
MODEL NO AT-S61
MADE IN JAPAN
LOOP
FM(75Ω)
LEFT
REMOTE
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
CAUTION

Fig. 1 Controls

1. POWER SWITCH
2. TUNING BUTTON
3. TUNING MODE BUTTONS WITH INDICATORS
4. SIGNAL STRENGTH INDICATORS
5. TUNE INDICATOR
6. STEREO INDICATOR
7. DIGITAL FL DISPLAY
8. MEMORY (ME) INDICATOR
9. PRESET STATION NUMBER DISPLAY
10. AUTO (FM MUTE) INDICATOR
11. BAND SELECTOR
12. MEMORY BUTTON
13. PRESET STATION BUTTONS
14. MONO BUTTON
    (CAL TONE BUTTON JAPAN Model)
15. FM AUTO BUTTON
    (MODE SELECTOR JAPAN Model)
16. FM, AM AND AM LOOP ANTENNA TERMINALS
17. AM LOOP ANTENNA HOLDER
18. OUTPUT JACKS
19. REMOTE JACK
20. POWER CORD


※ Reset button
Front panel

When the power to the AT-S61/L/J is turned on, the station that was tuned in before the power was turned off, will be tuned in again automatically. In case nothing is displayed or an unexpected frequency is displayed, turn the POWER switch on and off. If a proper frequency is still not displayed, depress the Reset button on the bottom of the unit. Do the same in case of malfunction.

IV. PRINCIPAL PARTS LOCATION

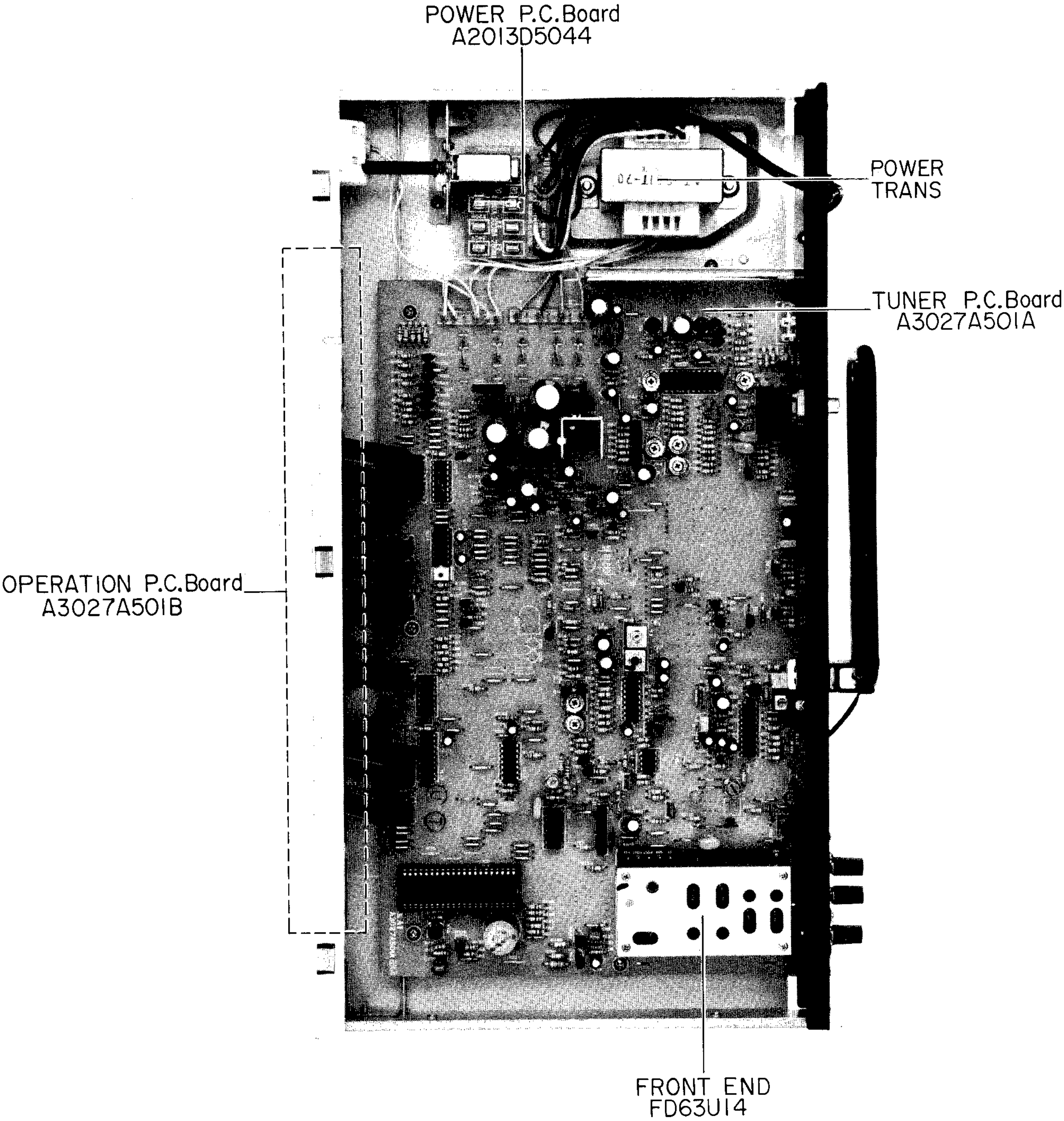
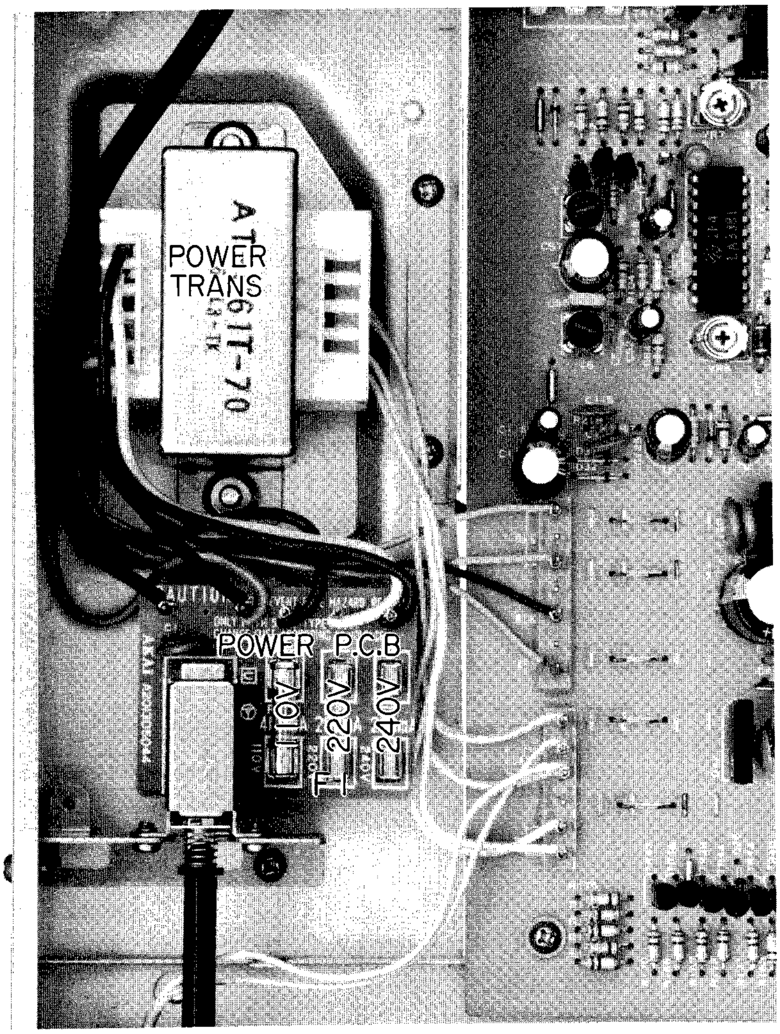

POWER P.C.Board
A2013D5044
POWER
TRANS
TUNER P.C.Board
A3027A501A
OPERATION P.C.Board
A3027A501B
FRONT END
FD63U14

Fig. 2 Top View

V. VOLTAGE CONVERSION



110V AREA : 250V 400mA
220V AREA : 250V 200mA
240V AREA : 250V 200mA

Fig. 3 Voltage Conversion (U Model Only)

Models for Japan, Canada, USA, Europe, UK and Australia are not equipped with this facility.
Each machine is preset at the factory according to destination, but some machines can be set to 110V, 220V or 240V as required. If voltage change is necessary, this can be accomplished as follows.

1. Disconnect the power cord.
2. Loosen the holding screws and remove the top panel.
3. Remove the Line Voltage Fuse and insert the required Line Voltage Fuse onto the proper Fuse Holder, explicitly following the printed instructions.

VI. OPERATION

1. FM SYNTHESIZER BLOCK DIAGRAM

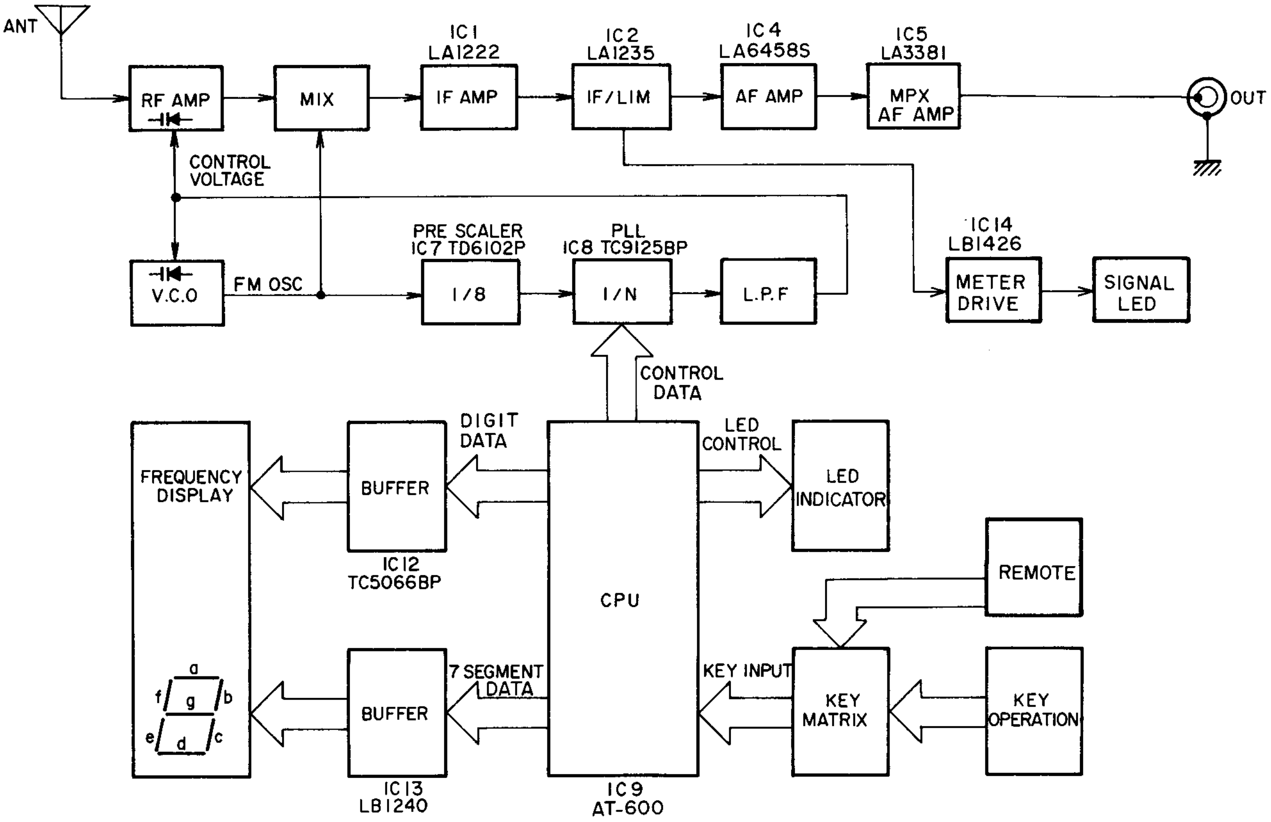
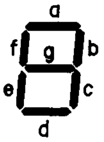

ANT
RF AMP
MIX
IC1
LA1222
IF AMP
IC2
LA1235
IF/LIM
IC4
LA6458S
AF AMP
IC5
LA3381
MPX
AF AMP
OUT
CONTROL
VOLTAGE
V.C.O
FM OSC
PRE SCALER
IC7 TD6102P
1/8
PLL
IC8 TC9125BP
1/N
L.P.F
IC14
LB1426
METER
DRIVE
SIGNAL
LED
CONTROL
DATA
DIGIT
DATA
LED
CONTROL
FREQUENCY
DISPLAY
BUFFER
IC12
TC5066BP
CPU
LED
INDICATOR
REMOTE
7 SEGMENT
DATA
KEY INPUT
BUFFER
KEY
MATRIX
KEY
OPERATION
IC13
LB1240
IC9
AT-600
a
b
c
d
e
f
g

Fig. 4 FM Synthesizer Block Diagram

2. FUNCTION OF AT600 TERMINALS

No.	Terminal Description	Function
1	MUTING	H = Muting OFF L = Muting ON
2	FM	H = FM L = MW (AM) or LW
3	MW	H = MW (AM) L = FM or LW
4	LW	H = LW L = FM or MW
5	LED DATA	Light up the LED of MANUAL, AUTO, RANDOM
6	K1 SIGNAL	(1) EXCEPT JAPAN K1 SIGNAL becomes "H" when MONO KEY is depressed, and K1 SIGNAL becomes "L" when AUTO KEY is depressed. K2 SIGNAL is always "L". (2) JAPAN MODEL K1 SIGNAL is reversed every time MODE KEY is depressed ("H" at MONO), and K2 SIGNAL is reversed every time CAL TONE KEY is depressed ("H" when CAL TONE is ON). When K2 SIGNAL is "H", CAL is displayed on FREQUENCY DISPLAY, and all tuning modes are released. Therefore, any input other than the inputs by CAL TONE KEY and MODE KEY are not mode.
7	K2 SIGNAL	
9	a	 Frequency Display Segment Data
10	b	
11	c	
12	d	
13	e	
14	f	
15	g	
16		
8	T6	TIMING CONTROL Display Digit Select Key Matrix Led Select
17	T5	
18	T4	
19	T3	
20	T2	
22	T1	
21	GND	
23	K1	KEY Input Input...ACTIVE LOW
24	K2	
25	K3	
26	K4	
27	XIN	Connect a OSC Coil.
28	XOUT	
29	CK	CAL TONE Signal (Japan Model only)
30	TEST	
31	$\overline{\text{RESET}}$	ACTIVE LOW → Reset
32	$\overline{\text{INT}}$	Interrupt Signal
33	$\overline{\text{POF}}$	Power OFF manage.
34	PLL LOAD	PLL Load Signal
35	KD	Lock SW input. (Refer to KEY Matrix)
36	NC	
37	AUTO STOP	L = AUTO STOP
38	D	PLL Frequency Data
39	C	
40	B	
41	A	
42	VDD	Power terminal +5V

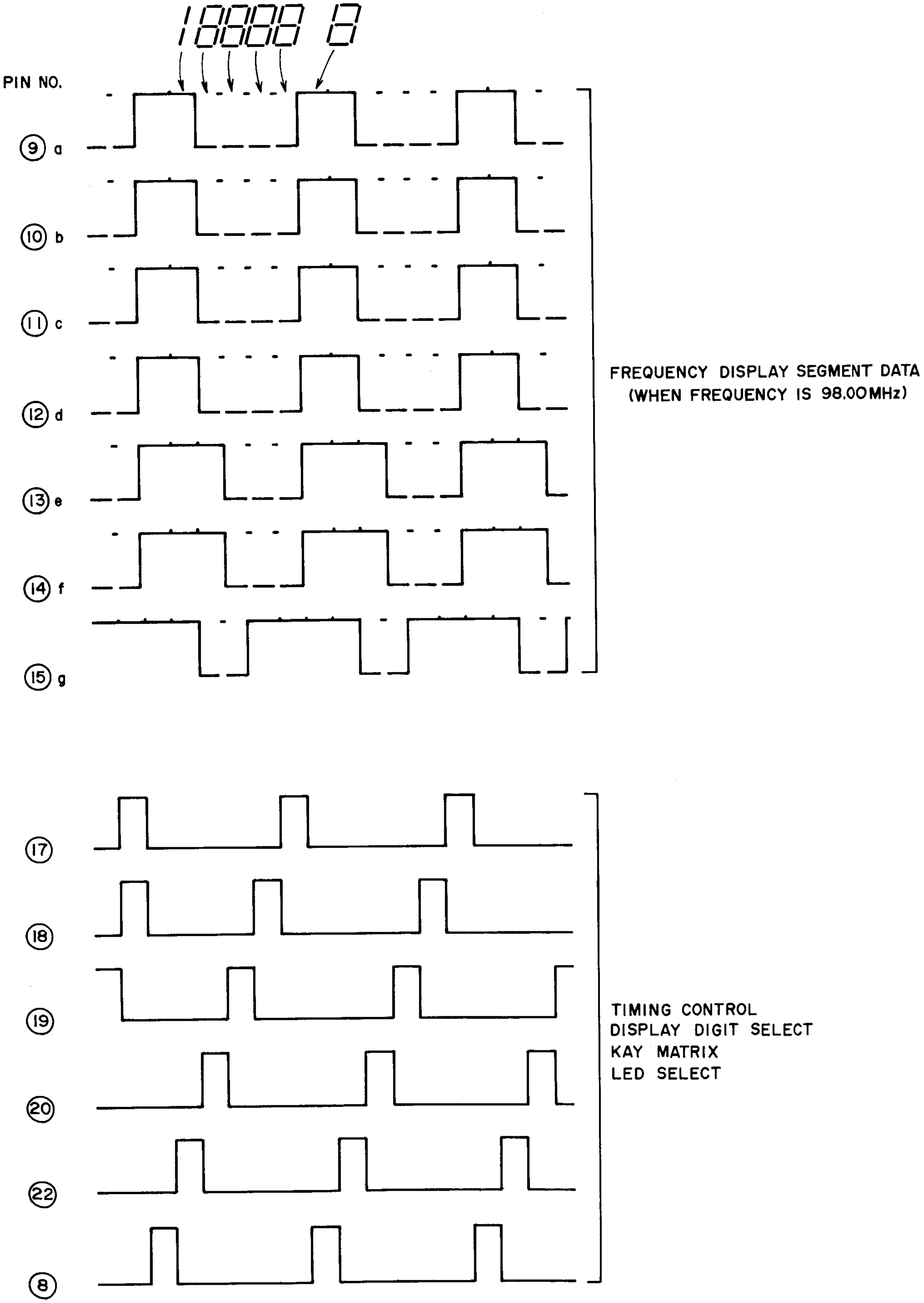

PIN NO.
⑨ a
⑩ b
⑪ c
⑫ d
⑬ e
⑭ f
⑮ g
FREQUENCY DISPLAY SEGMENT DATA
(WHEN FREQUENCY IS 98.00MHz)
⑰
⑱
⑲
⑳
㉒
⑧
TIMING CONTROL
DISPLAY DIGIT SELECT
KAY MATRIX
LED SELECT

Fig. 5 Waveform of IC9(AT-600)

3. POWER OFF MANAGE AND RESET CIRCUIT

1) If power is ON, TR36 is turned ON. At the same time, C106 is charged through D21 and R221. If power is OFF, TR36 is turned OFF, and IC9 ㉝ becomes "H" by the electric charge of C106 and CPU is set to Hold.
2) Memory by Super Capacitor (C106, 0.22F) can be stored for about 20 days.
3) If power is ON while Super Capacitor is discharged, malfunction may be caused. In such a case, depress RESET Button (SW1) to reset Mi-Com. Reset operation should be performed while power is ON.

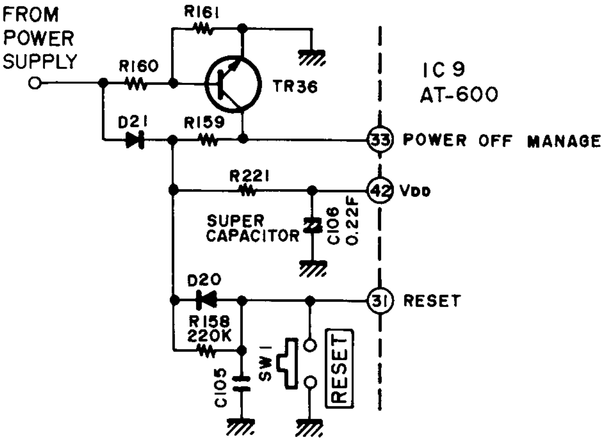

FROM POWER SUPPLY
R161
R160
TR36
D21
R159
IC 9
AT-600
33 POWER OFF MANAGE
R221
42 VDD
SUPER CAPACITOR
C106 0.22F
D20
31 RESET
R158 220K
SW1
C105
RESET

Fig. 6

4. MUTE CIRCUIT OPERATION

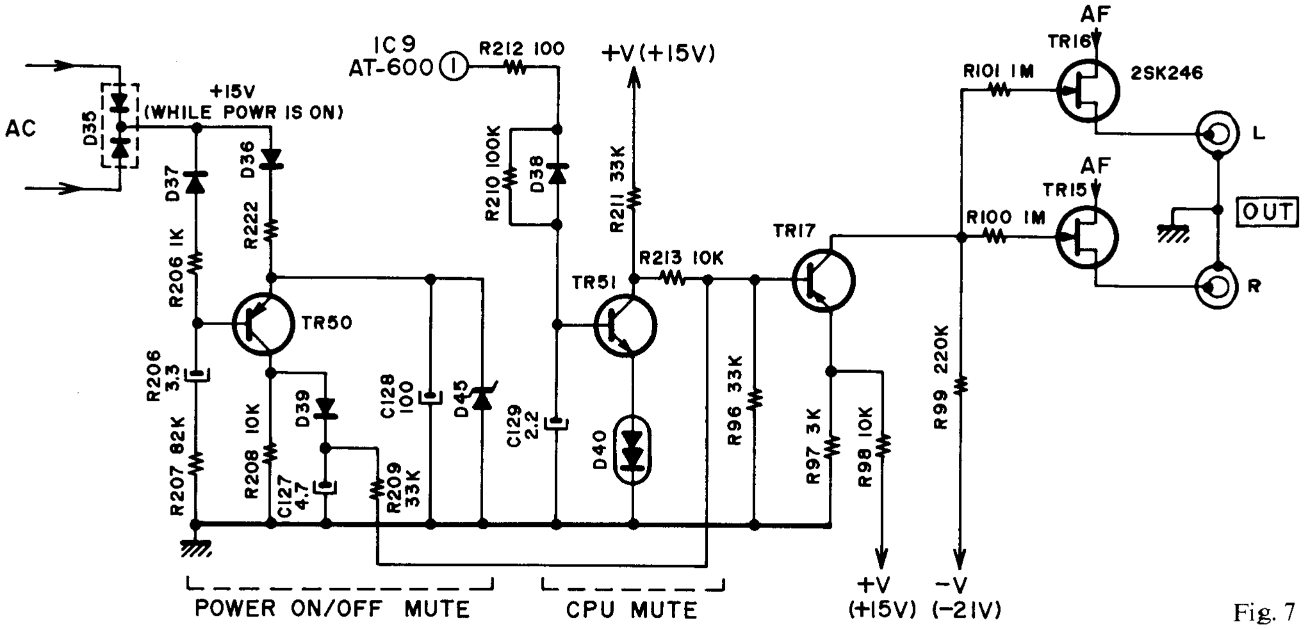

AC
D35
+15V (WHILE POWR IS ON)
IC9 AT-600 1
R212 100
+V(+15V)
D37
D36
R222
R206 1K
TR50
R206 3.3
R207 82K
R208 10K
D39
C127 4.7
R209 33K
C128 100
D45
R210 100K
D38
C129 2.2
TR51
D40
R211 33K
R213 10K
R96 33K
TR17
R97 3K
R98 10K
R99 220K
AF
TR16
2SK246
R101 1M
AF
TR15
R100 1M
L
OUT
R
POWER ON/OFF MUTE
CPU MUTE
+V (+15V)
-V (-21V)

Fig. 7

AT-S61 has two mutes, one at the power ON/OFF operation, and the other by the signal from CPU IC (AT-600).

1) When the power switch is turn ON, the DC voltage rectified by D35 is applied to TR50 through D36 and R222. Since TR50 is kept ON until C126 is charged by base current, + voltage is applied to the base of TR17 through D39 and R209. As the base potential of TR17 becomes higher than that of the emitter, it is turned OFF. As – voltage is applied to Gate, TR15 and TR16 are turned OFF and AF signal is not sent to the output terminal. When the charging of C126 is completed, AF signal is output after TR50 → OFF, TR17 → ON and TR15 and TR16 → ON.
2) When the power switch is turned OFF, the potential of D35 is lowered faster than other power sources (+15, -21V) since the rectified output of D35 has no smoothing condenser. Moreover, as C126 discharges through R206 and D37, the base potential of TR50 is lowered. On the other hand, the emitter of TR50 comes to have a higher potential due to the electric charge C128, thus causing TR50 to be turned ON. Afterwards, as in the case where power is ON, TR17 → OFF, TR15 and TR16 → OFF, and AF signal is not output. This operation ends when the discharging of C128 is completed.
3) Terminal ① of IC9 (AT-600) is "H" at the time of normal reception. At time, TR51 is ON → TR17: ON → TR15 and TR16: ON, and AF signal is output from Line Out.
4) Terminal ① of IC9 (AT-600) becomes "L" during scanning when Preset Station Key is depressed at the time of Random Tuning and when Band Selector is depressed. At this time, the base bias is not applied to TR51 and it is turned OFF, while the base potential of TR17 becomes higher than that of the emitter to turn TR17 OFF. On the other hand, minus bias is applied to TR15 and TR16 to turn them OFF, and AF signal is not output.

5. STEREO NOISE REDUCTION CIRCUIT

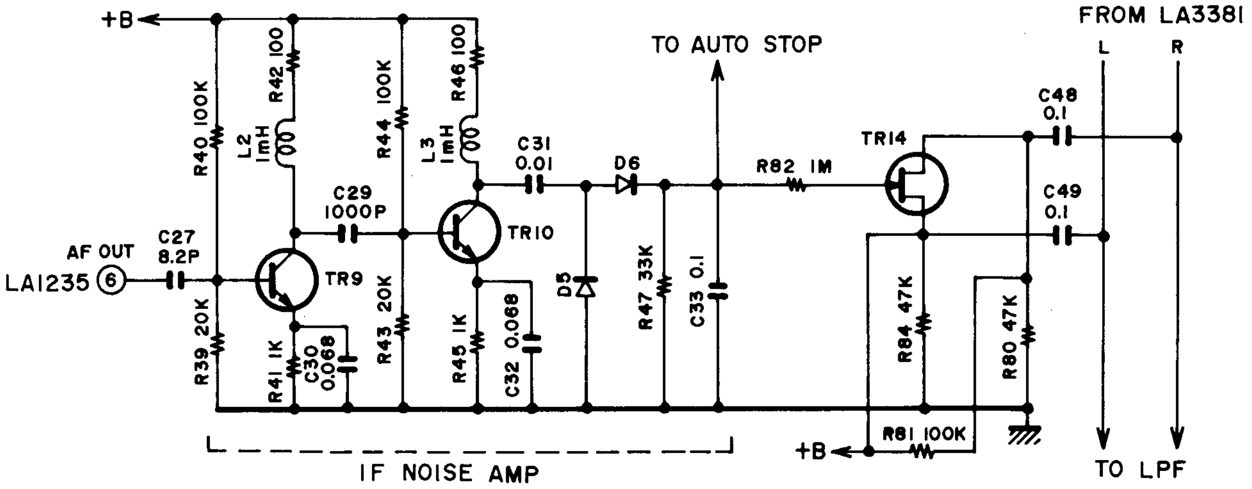

+B
R40 100K
R42 100
L2 1mH
R44 100K
R46 100
L3 1mH
TO AUTO STOP
FROM LA3381
L
R
C48 0.1
TR14
C31 0.01
D6
R82 1M
C49 0.1
C29 1000P
TR10
AF OUT LA1235 ⑥
C27 8.2P
TR9
D5
R47 33K
C33 0.1
R84 47K
R80 47K
R39 20K
R41 1K
C30 0.068
R43 20K
R45 1K
C32 0.068
R81 100K
+B
IF NOISE AMP
TO LPF

Fig. 8

The noise amplifier is a narrow-band amplifier that amplifies the frequency component of more than 100 kHz, and transforms the output into DC.

To prevent the noise containing a high-band component from increasing at the time of weak electric field, the gate potential of FET is controlled by amplifying the noise and transforming it into DC. Thus, the L-R separation can be deteriorated intentionally to reduce the noise.

6. AUTO STOP SIGNAL DETECTING CIRCUIT

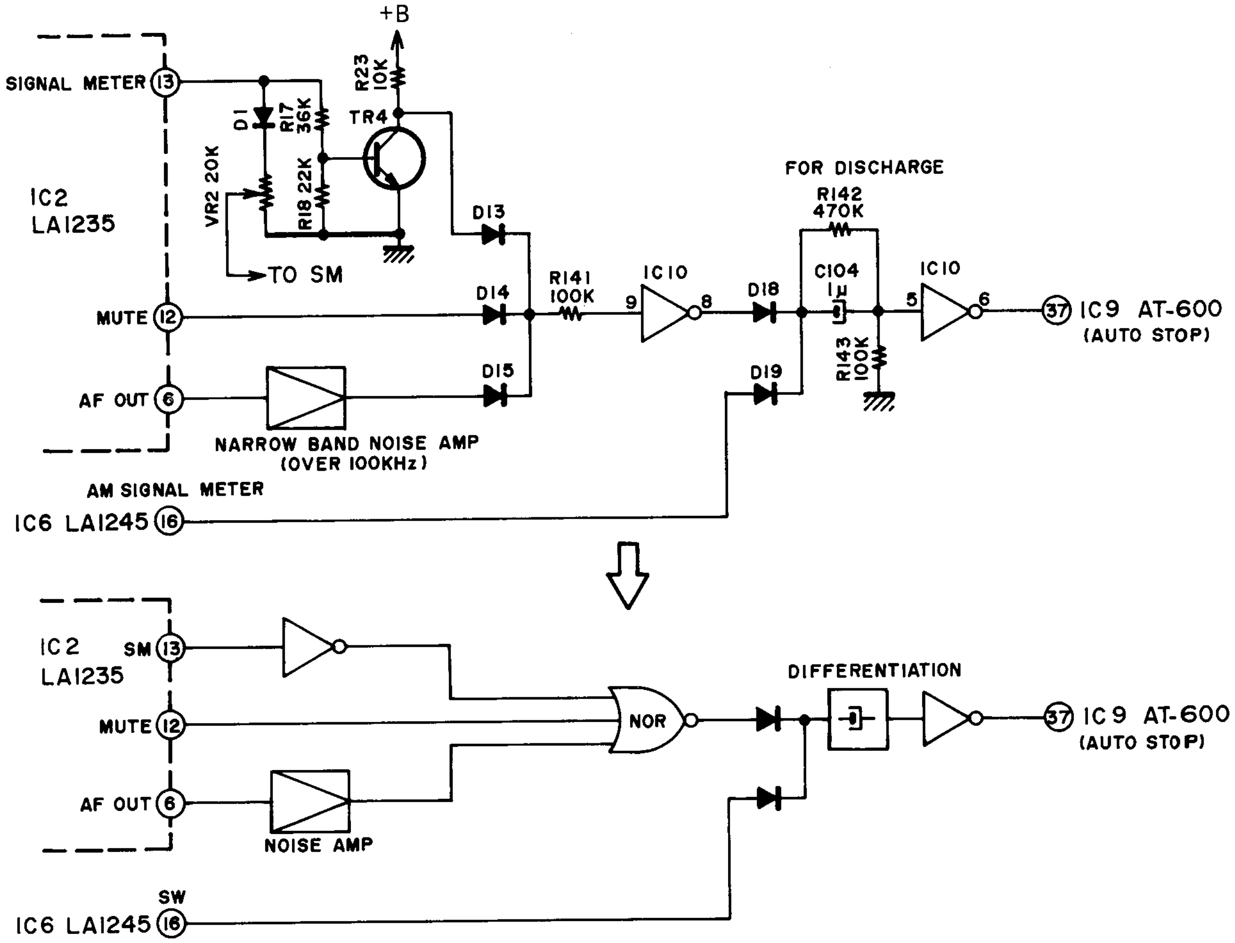

+B
SIGNAL METER ⑬
R23 10K
D1
R17 36K
TR4
IC2
LA1235
VR2 20K
R18 22K
TO SM
D13
D14
R141 100K
IC10
9
8
D18
FOR DISCHARGE
R142 470K
C104 1μ
IC10
5
6
㊲ IC9 AT-600 (AUTO STOP)
MUTE ⑫
R143 100K
D19
AF OUT ⑥
D15
NARROW BAND NOISE AMP (OVER 100KHz)
AM SIGNAL METER
IC6 LA1245 ⑯
IC2 SM ⑬
LA1235
MUTE ⑫
NOR
DIFFERENTIATION
㊲ IC9 AT-600 (AUTO STOP)
AF OUT ⑥
NOISE AMP
SW
IC6 LA1245 ⑯

Fig. 9

1) During scanning in FM mode IC2 ⑬ is "L" and IC2 ⑫ is "H", and the output of Noise Amp. becomes "H" due to the detuning noise. Since NOR Gate consisting of diode and inverter performs "H" output only when all the inputs are "L", the present output is "L". If a broadcast is received, ⑬ becomes "H", ⑫ becomes "L" and the output of Noise Amp. becomes "L" since detuning noise disappears. Therefore, all the inputs of NOR Gate becomes "L" and the output becomes "H". "H" output of NOR Gate is differentiated and reversed to make ㊲ terminal of IC9 (AT-600) "L" and stop scanning. IC6 ⑯ is always "L" in FM mode. Auto Stop Signal in AM mode uses the signal meter output of IC6 ⑯ . IC6 ⑯ is "H" at the time of broadcast reception and is "L" on other occasions. Since IC2 ⑬ is always "H" in AM mode, the output of NOR Gate is "L".

7. KEY MATRIX

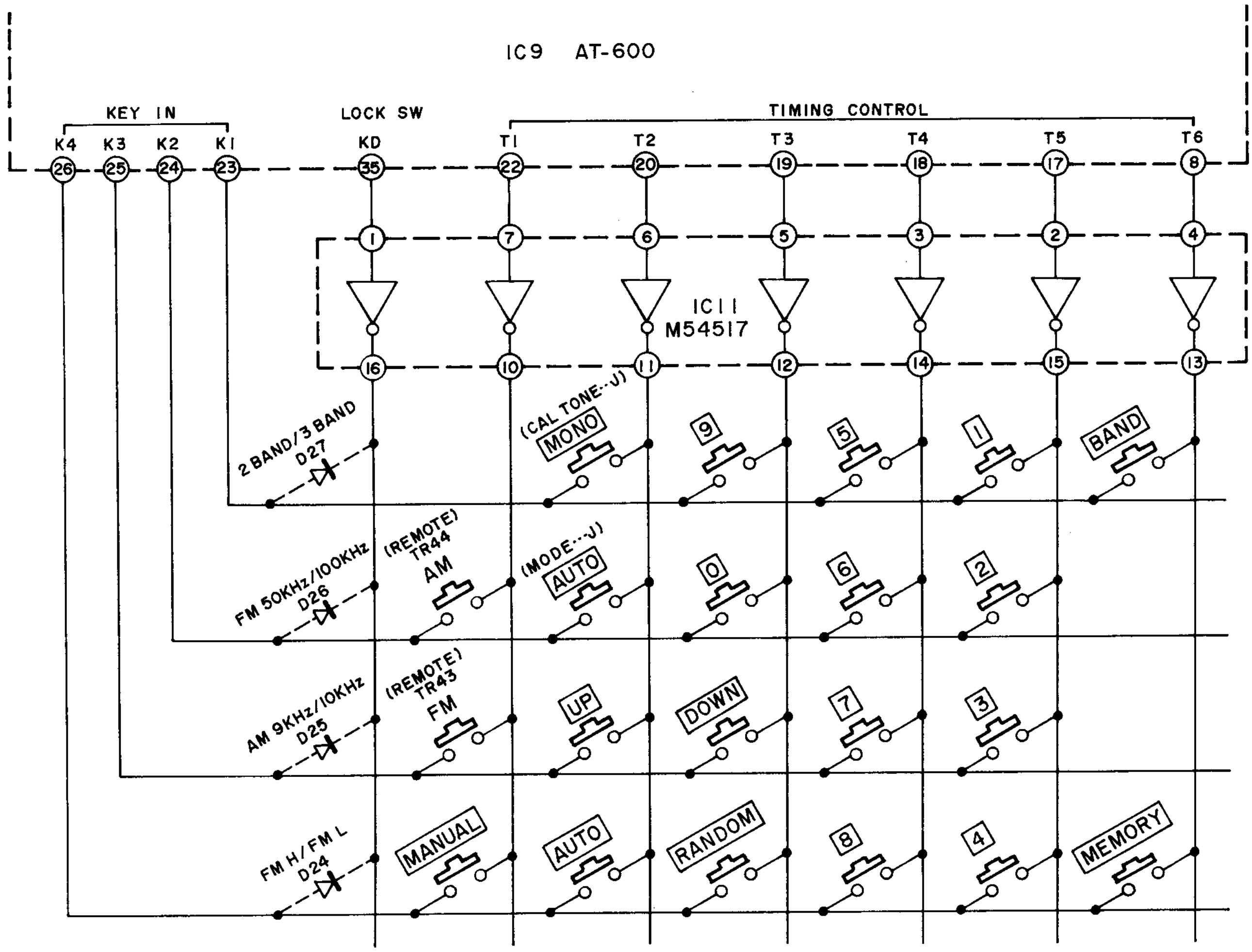

IC9 AT-600
KEY IN
K4 K3 K2 K1
26 25 24 23
LOCK SW
KD
35
TIMING CONTROL
T1 T2 T3 T4 T5 T6
22 20 19 18 17 8
1 7 6 5 3 2 4
IC11
M54517
16 10 11 12 14 15 13
2 BAND/3 BAND
D27
(CAL TONE··J)
MONO
9
5
1
BAND
FM 50KHz/100KHz
D26
(REMOTE)
TR44
AM
(MODE··J)
AUTO
0
6
2
AM 9KHz/10KHz
D25
(REMOTE)
TR43
FM
UP
DOWN
7
3
FM H/FM L
D24
MANUAL
AUTO
RANDOM
8
4
MEMORY

Fig. 10

Destination	AM	FM	Connected Diode
J C, A U, E, S, V	522 ~ 1611 kHz (9 kHz STEP) 530 ~ 1610 kHz (10 kHz STEP) 522 ~ 1611 kHz (9 kHz STEP)	76.00 ~ 90.00 MHz (100 kHz STEP) 87.40 ~ 108.10 MHz (100 kHz STEP) 87.40 ~ 108.10 MHz (50 kHz STEP)	D24 D25, D26 None
L BAND	LW 137 ~ 362 kHz (10 kHz STEP) MW 522 ~ 1611 kHz (9 kHz STEP)	87.40 ~ 108.10 MHz (50 kHz STEP)	D27

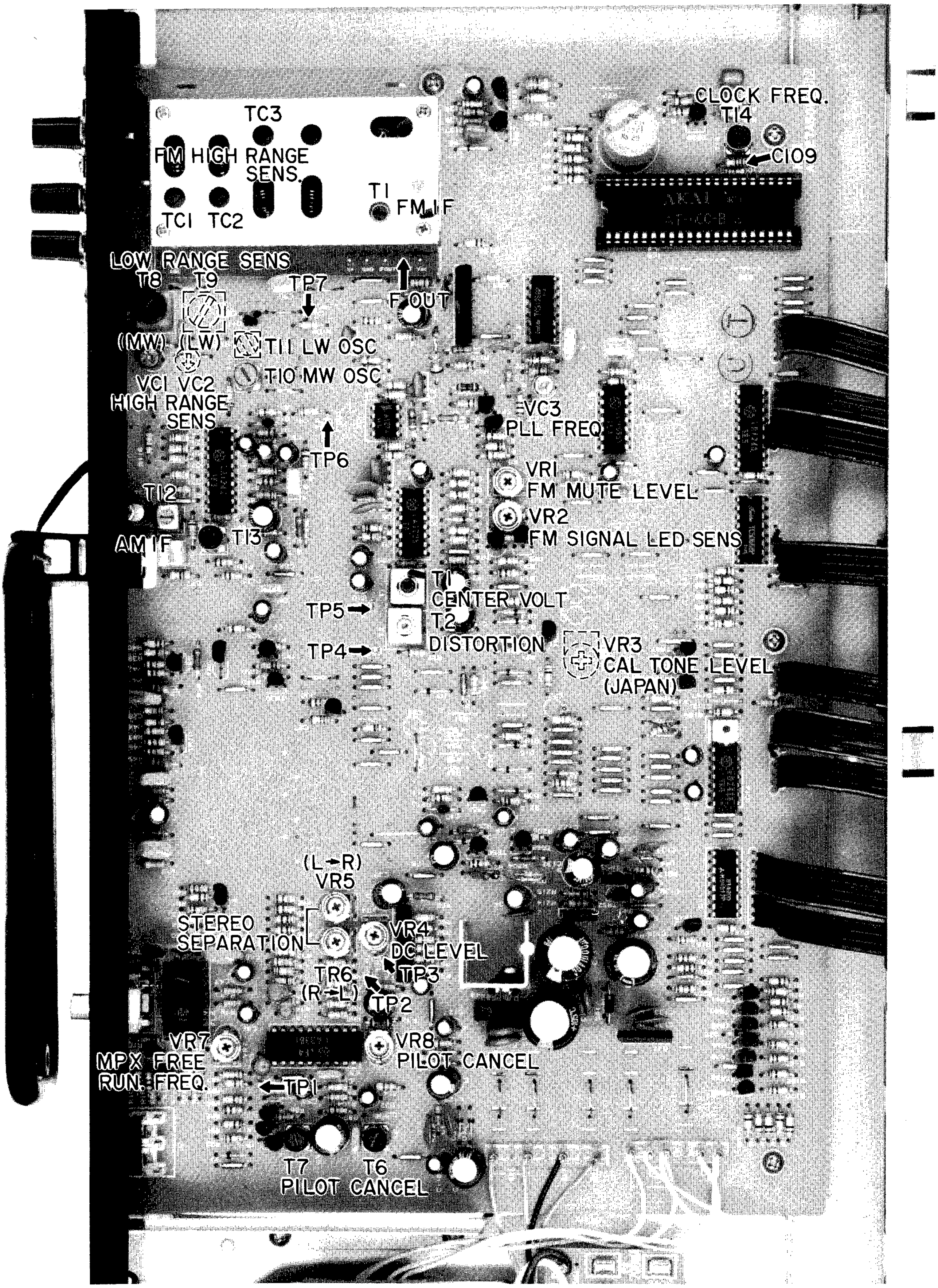

TC3
FM HIGH RANGE SENS.
T1
FM IF
TC1
TC2
CLOCK FREQ.
T14
C109
LOW RANGE SENS
T8
T9
TP7
F OUT
(MW)
(LW)
T11 LW OSC
T10 MW OSC
VC1 VC2
HIGH RANGE SENS
VC3
PLL FREQ
TP6
VR1
FM MUTE LEVEL
T12
VR2
FM SIGNAL LED SENS
AM IF
T13
T1
CENTER VOLT
TP5
T2
DISTORTION
TP4
VR3
CAL TONE LEVEL
(JAPAN)
(L→R)
VR5
STEREO SEPARATION
VR4
DC LEVEL
TP3
TR6
(R→L)
TP2
VR7
MPX FREE RUN. FREQ.
VR8
PILOT CANCEL
TP1
T7
T6
PILOT CANCEL

Fig. 11 Tuner P.CBoard

VII. ELECTRICAL ADJUSTMENT

1. AM (AT-S61L: MW) SECTION ADJUSTMENT (Refer to Fig. 4)

Unless otherwise specified, use the adjustment points provided on the Tuner P.C Board. (Fig. 4)

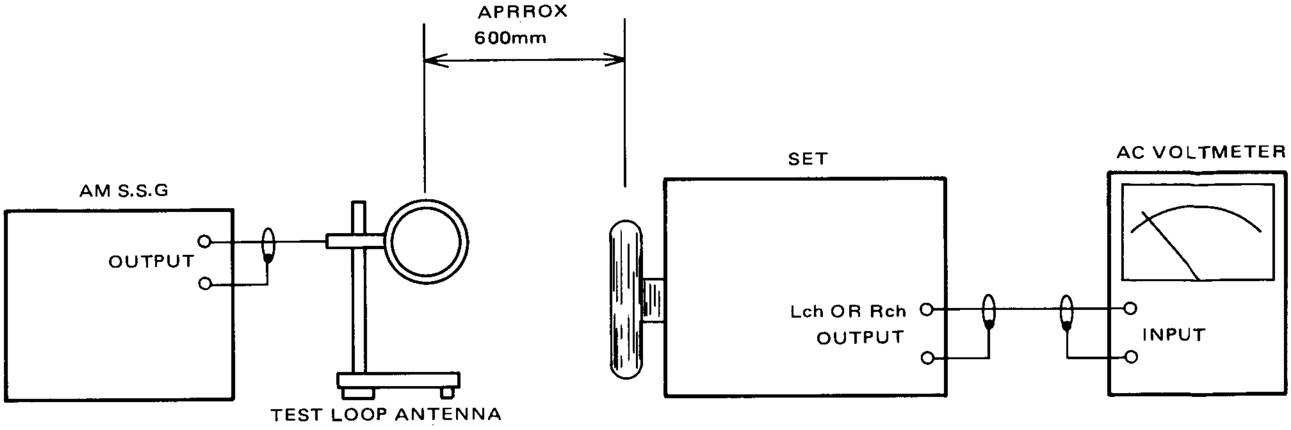


Fig. 12 Instrument Connections for AM Section Adjustment

STEP	ADJUSTMENT ITEM	ADJUSTMENT POINT	RESULT	REMARKS
1	Clock Frequency	T14 (BLK)	420 kHz	Connect a Frequency Counter between C109 (IC9 Pin 28) and GND on the Tuner P.C Board.
2	PLL Frequency	VC3	Digital Display Indicating Frequency +10.7 MHz	BAND switch to FM. Connect a Frequency Counter between F. OUT and GND on the FRONT END.
3	AM (MW) OSC	T10 (RED)	705 kHz	BAND switch to AM (MW). Short TP7 to GND and connect a Frequency Counter between TP6 and GND on the Tuner P.C Board.
4	OP. AMP. DC Level	VR4	4.80V	BAND switch to AM (MW). Connect a DC Voltmeter between TP3 and GND on the Tuner P.C Board.
5	AM IF Coil	T12 (YLW) T13 (BLK)	Maximum Output	1,000 kHz (1,008 kHz), 50 dB, 400 Hz (30%) input.
6	Low Range Sensitivity	T8	Maximum Output Distortion Factor: Less than 10%	600 kHz (603 kHz), 55 dB, 400 Hz (30%) input.
7	High Range Sensitivity	VC1	Maximum Output Distortion Factor: Less than 10%	1,400 kHz (1,404 kHz), 55 dB, 400 Hz (30%) input.
8				Readjust in Steps 6 and 7.

2. LW SECTION ADJUSTMENT (AT-S61L only)

STEP	ADJUSTMENT ITEM	ADJUSTMENT POINT	RESULT	REMARKS
1	LW OSC	T11	525 kHz	BAND switch to LW. Short TP5 to GND and connect a Frequency Counter between TP6 and GND on the Tuner P.C Board.
2	Low Range Sensitivity	T9	Maximum Output Distortion Factor: Less than 10%	164 kHz, 50 dB, 400 Hz (30%) input. (Refer to Fig. 5)
3	High Range Sensitivity	VC2	Maximum Output Distortion Factor: Less than 10%	308 kHz, 50 dB, 400 Hz (30%) input. (Refer to Fig. 5)

3. FM SECTION ADJUSTMENT

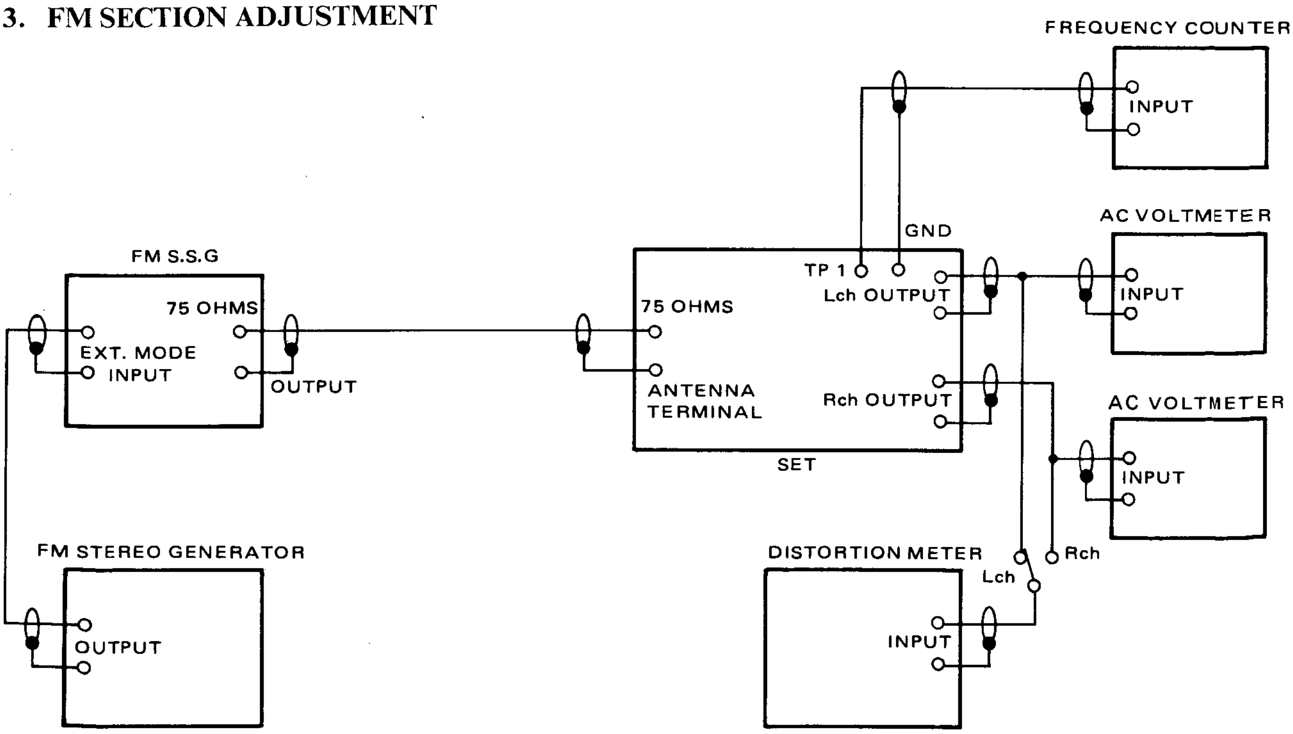

FREQUENCY COUNTER
INPUT
GND
TP 1
AC VOLTMETER
INPUT
FM S.S.G
75 OHMS
EXT. MODE
INPUT
OUTPUT
75 OHMS
Lch OUTPUT
ANTENNA
TERMINAL
Rch OUTPUT
SET
AC VOLTMETER
INPUT
FM STEREO GENERATOR
OUTPUT
DISTORTION METER
Lch
Rch
INPUT

Fig. 13 Instruments Connection for FM Section Adjustment

STEP	ADJUSTMENT ITEM	ADJUSTMENT POINT	RESULT	REMARKS
1	FM IF Coil	T1 (BLK) (Front End)	Maximum Noise Level	BAND switch to FM, and MODE to MONO. Tunes only noise without interference from broadcasting.
2	Center Voltage	T1	Centered Tuning Meter Indication	Connect a Center Tuning Meter between TP4 and TP5 (See Note 1). Tunes only noise without interference from broadcasting.
3	Distortion Factor	T2	Distortion Factor: Less than 0.2%	98 MHz (84 MHz), 60 dB, 1 kHz (Mono 100%) input Less than 0.2% in both channels.
4				Readjust in Steps 2 and 3.
5	MPX Free Running Frequency	VR7	76 kHz ±50 Hz	Connect a Frequency Counter between TP1 and GND on the Tuner P.C Board.
6	High Range Sensitivity	TC1, TC2 TC3 (Front End)	Distortion Factor: Less than 3%	MODE switch to MONO. 108 MHz (88 MHz), Less than 6 dB, 1 kHz, (MONO) input.
7	Confirmation of Low Range Sensitivity		Distortion Factor: Less than 3%	88 MHz (76 MHz), Less than 6 dB, 1 kHz, (MONO) input. (See Notes 2, 3)
8	Pilot Signal Cancel	VR8 (T6, T7)	Minimum Output	MODE switch to STEREO. 98 MHz (84 MHz), 60 dB (Stereo), Pilot signal only input.
9	Stereo Separation (Left → Right)	VR5	More than 45 dB	98 MHz (84 MHz), 60 dB, 1 kHz (Stereo 100%) Lch input. Minimum Output of Rch.
10	Stereo Separation (Right → Left)	VR6	More than 45 dB	98 MHz (84 MHz), 60 dB, 1 kHz (Stereo 100%) Rch input. Minimum output of Lch.
11	Confirmation of Stereo Distortion Factor		Distortion Factor: Less than 0.3%	98 MHz (84 MHz), 60 dB, 1 kHz (Stereo 100%) input. If distortion exceeds 0.5%, first check according to Steps 2, 3, 5, 9 and 10, and then readjust according to Step 1.
12	Signal LED Sensitivity	VR2		98 MHz (84 MHz), 40 dB input Adjust VR2 to a point where 5th LED of SIGNAL LED light up. (See Note 4)
13	Muting Level	VR1	20 dB ±6 dB	MODE switch to STEREO. 98 MHz, 20 dB, 1 kHz (Mono 100%) input. Adjust VR1 until the output signal is reduced to zero. Vary the SSG output by ±6 dB and check muting operation.
14	CAL TONE Level	VR3	275 mV	AT-S61J only.

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

1) Model AT-S61

P.C BOARD TITLE	P.C BOARD NUMBER	NOTES
TUNER P.C Board	A3027A501A	U
TUNER P.C Board	A3027A502A	E, V, S
TUNER P.C Board	A3027A503A	C, A
OPERATION P.C Board	A3027A501B	U
OPERATION P.C Board	A3027A502B	E, V, S
OPERATION P.C Board	A3027A503B	C, A
POWER P.C Board	A2013D5044	U
POWER P.C Board	A3027D5040	C, A, E, S
POWER P.C Board	A3033D509B	V
FILTER P.C Board	A3033D509A	V

2) Model AT-S61L

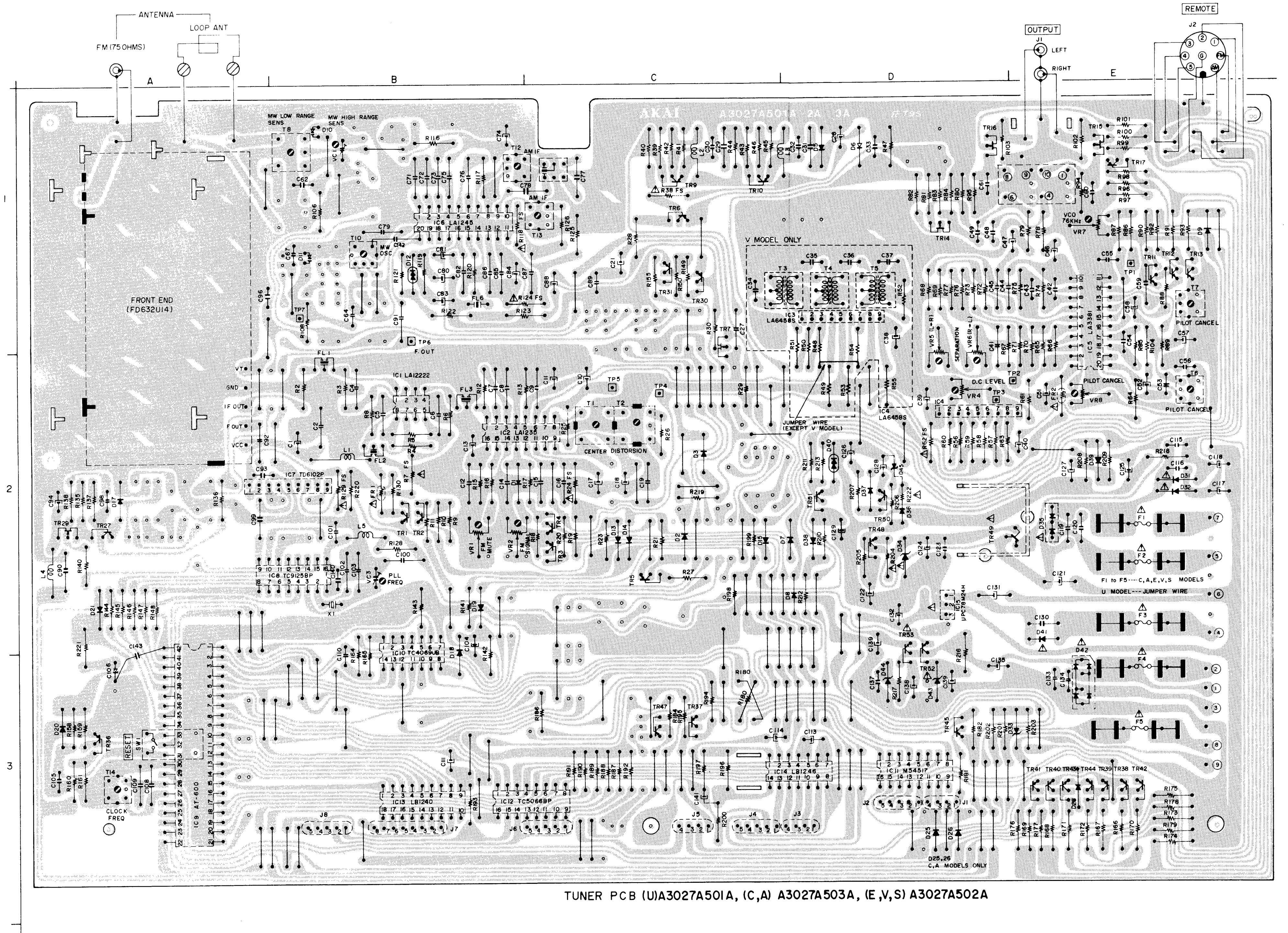
P.C BOARD TITLE	P.C BOARD NUMBER	NOTES
TUNER P.C Board	A3027A502A	
OPERATION P.C Board	A3027D502B	
POWER P.C Board	A3027D5050	

3) Model AT-S61J

P.C BOARD TITLE	P.C BOARD NUMBER	NOTES
TUNER P.C Board	A3027A501A	
OPERATION P.C Board	A3027A501B	
POWER P.C Board	A3027D5060	

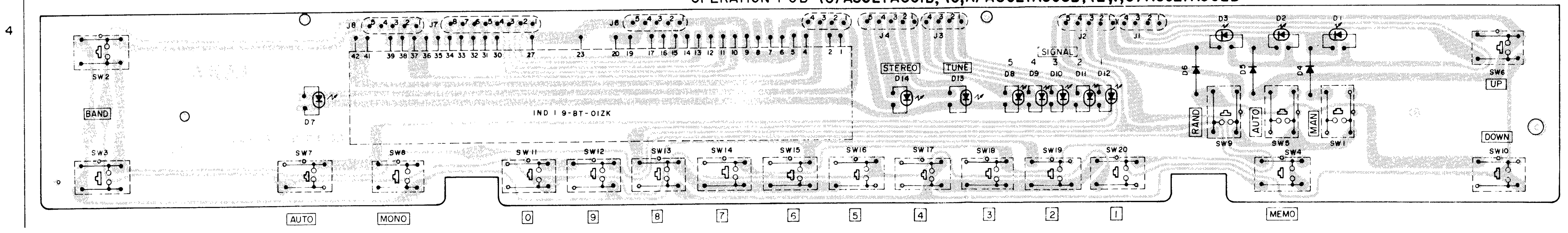
2. COMPOSITION OF VARIOUS P.C BOARDS

1) Model AT-S61 Tuner P.C Board A3027A501A (U), A3027A502A (E, V, S), A3027A503A (C, A) and Operation P.C Board A3027A501B (U), A3027A502B (E, V, S), A3027A503B (C, A)


ANTENNA
LOOP ANT
FM (75 OHMS)
REMOTE
J2
OUTPUT
J1
LEFT
RIGHT
A
B
C
D
E
1
2
3
AKAI
A3027A501A 2A 3A
FRONT END
(FD632U14)
MW LOW RANGE SENS
MW HIGH RANGE SENS
AM IF
MW OSC
IC6 LA1245
IC1 LA1222
IC2 LA1235
IC7 TD6102P
IC8 TC9125BP
IC9 AT-600
IC10 TC4069UB
IC12 TC5066BP
IC13 LB1260
IC14 LB1246
IC11 M5451P
V MODEL ONLY
JUMPER WIRE
(EXCEPT V MODEL)
CENTER DISTORSION
SEPARATION
D.C LEVEL
PILOT CANCEL
VCO 76KHz
F OUT
PLL FREQ
FM MUTE
RESET
CLOCK FREQ
F1 to F5----C,A,E,V,S MODELS
U MODEL---JUMPER WIRE
D25,26
C,A MODELS ONLY
J3
J4
J5
J6
J7
J8

TUNER PCB (U)A3027A501A, (C,A) A3027A503A, (E,V,S) A3027A502A

OPERATION PCB (U) A3027A501B, (C,A) A3027A503B, (E,V,S) A3027A502B


4
J8
J7
J6
J5
J4
J3
J2
J1
IND I 9-BT-012K
STEREO
D14
TUNE
D13
SIGNAL
D8
D9
D10
D11
D12
D7
SW2
BAND
SW3
SW7
SW8
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
RAND
AUTO
MAN
SW9
SW5
SW4
SW1
SW6
UP
DOWN
SW10
AUTO
MONO
0
9
8
7
6
5
4
3
2
1
MEMO

LOCATION OF IC & TR & TERMINAL

TR1,2--B2
TR3 to 5--C2
TR6,7,9,10-C1
TR11 to 13--E1
TR14--D1
TR15--E1
TR16--D1
TR17--E1

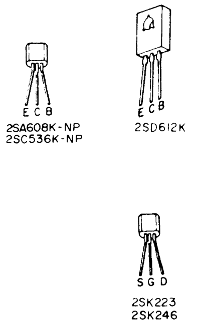
TR30 31----C1
TR36--A3
TR37--C3
TR38 to 44--E3
TR45--D3
TR46,47-C3
TR48--D2
TR49--E2
TR50,51--D2
TR52,53--D3

IC1,2--B2
IC4--- D2
IC5--- E1
IC6---B1
IC7---A2
IC8---B2
IC9---A3
IC10--B2
IC11---D3
IC12,13-B3
IC14---D3
IC15---D2

J1 to 3--D3
J4 to 6--C3
J7,8---B3
J9---C3

TR1, 6, 17--- 2SA608K-NP (E,F,G)
TR2 to 5 ---- 2SC536K-NP (F,G)
TR7, 14 to 16--- 2SK246 (Y)
TR9 to 13--- —2SC536K-NP (F,G)

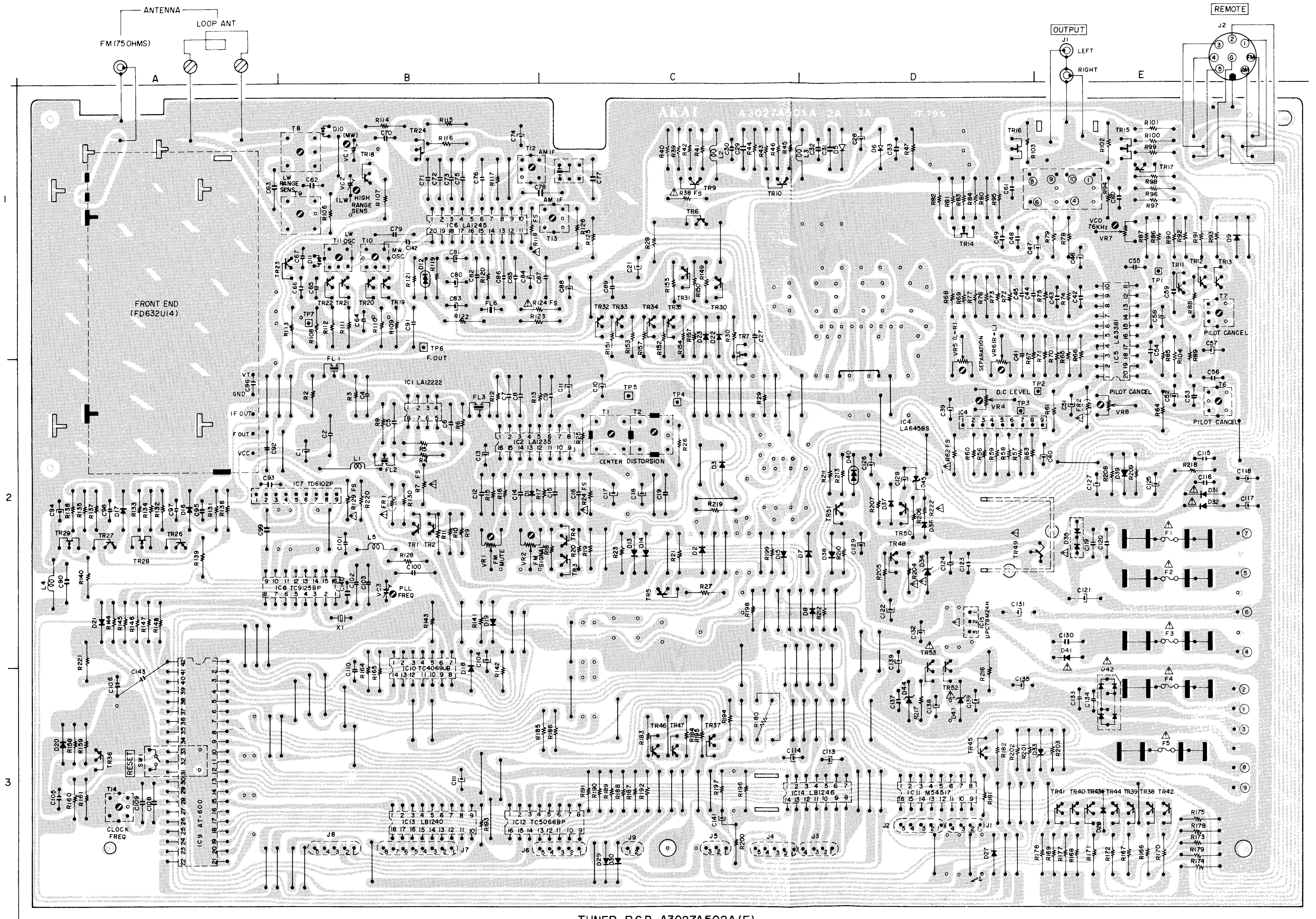
TR26, 27, 31 to 44
48, 51, 52 ---- 2SC536K-NP (F,G)
TR30, 45, 46, 47, 50 - 2SA608K-NP (E,F,G)
TR49, 53 - 2SD612K (D,E,F)
TR28, 29 - 2SK223 (F)


E C B
2SA608K-NP
2SC536K-NP
E C B
2SD612K
S G D
2SK223
2SK246

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

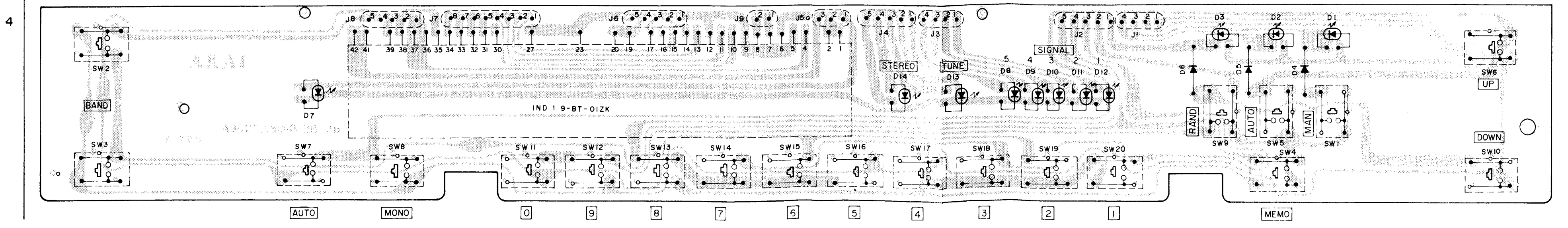
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

2) Model AT-S61L Tuner P.C Board A3027A502A and Operation P.C Board A3027A502B


ANTENNA
LOOP ANT
FM(75OHMS)
OUTPUT
J1
LEFT
RIGHT
REMOTE
J2
A
B
C
D
E
1
2
3
FRONT END (FD632U14)
AKAI A3027A501A 2A 3A
IC1 LA1222
IC6 LA1245
IC7 TD6102P
IC8 TC9125BP
IC9 AT-600
IC10 TC4069UB
IC12 TC5066BP
IC13 LB1240
IC14 LB1246
IC11 M54517
IC4 LA6458S
IC5 LA3381
CENTER DISTORSION
D.C LEVEL
PILOT CANCEL
SEPARATION
VCO 76KHz
CLOCK FREQ
RESET
PLL FREQ
AM IF
LW RANGE SENS
HIGH RANGE SENS
MW OSC
LW OSC
F.OUT
UPC78M24H

TUNER PCB A3027A502A(E)

OPERATION PCB A3027A502B


4
IND 1 9-BT-01ZK
BAND
STEREO
TUNE
SIGNAL
RAND
AUTO
MAN
UP
DOWN
AUTO
MONO
0
9
8
7
6
5
4
3
2
1
MEMO

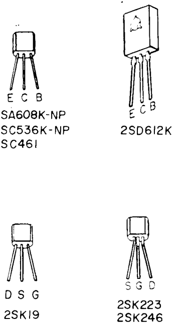
LOCATION OF IC & TR & TERMINAL

TR1,2--B2
TR3to5--C2
TR6,7,9,10-C1
TR11 to13--E1
TR14--D1
TR15--E1
TR16--D1
TR17--E1
TR18 to 23--B1
TR24--B1
TR26 to 29--A2
TR30 to 35--C1
TR36--A3
TR37--C3
TR38 to 44--E3
TR45--D3
TR46,47-C3
TR48--D2
TR49--E2
TR50,51--D2
TR52,53--D3

IC1,2--B2
IC4--- D2
IC5--- E1
IC6---B1
IC7---A2
IC8---B2
IC9---A3
IC10--B2
IC11---D3
IC12,13-B3
IC14---D3
IC15---D2

J1 to 3--D3
J4 to 6--C3
J7,8---B3
J9---C3

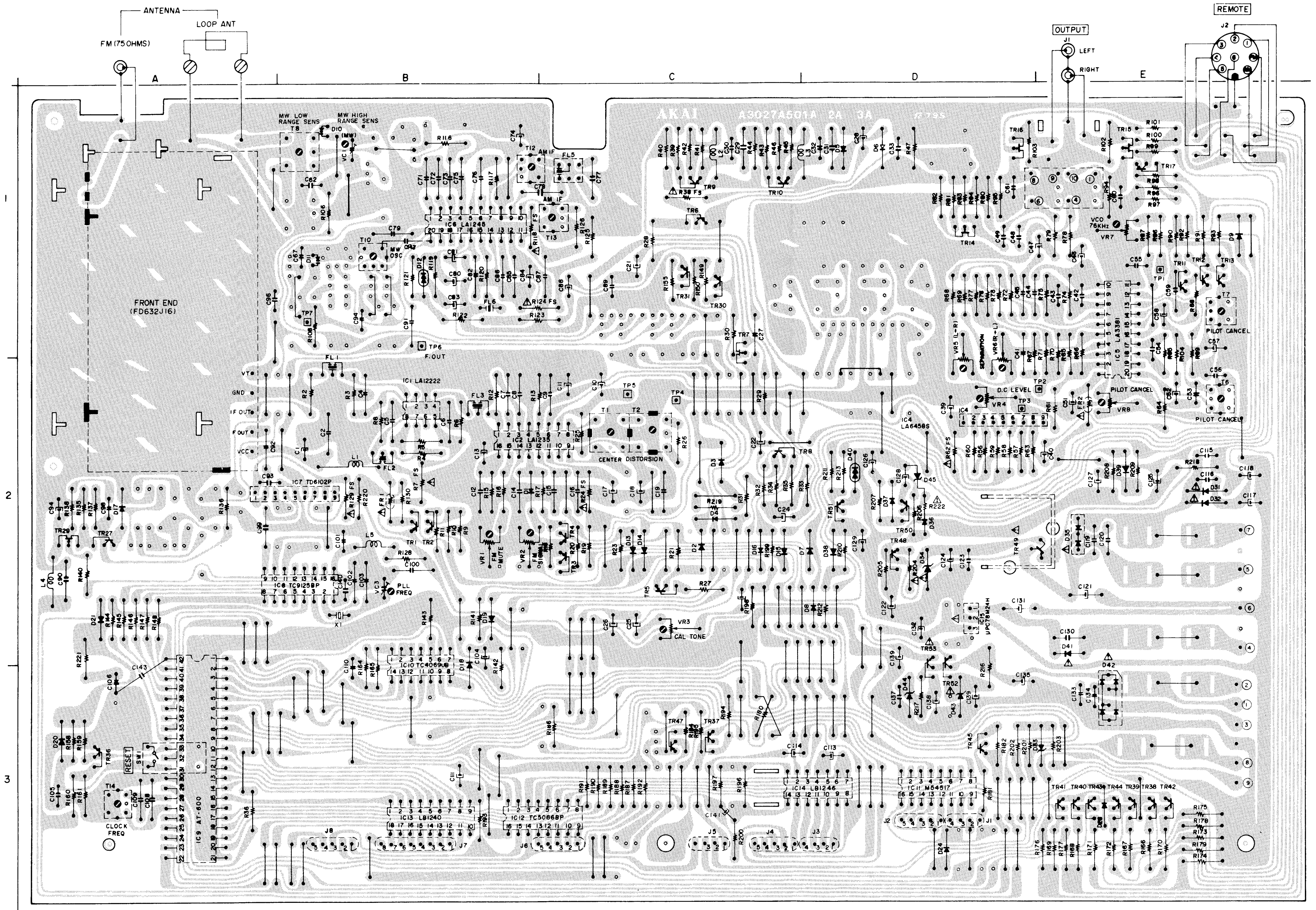
TR1,6,17--- 2SA608K-NP(E,F,G)
TR2 to 5 ---- 2SC536K-NP (F,G)
TR7,14 to16---2SK246(Y)
TR9 to 13,18,23-2SC536K-NP(F,G)
TR19 to 22-----2SA608K-NP(E,F,G)
TR24 -------2SK19(Y)
TR26,27,31 to 44
48,51,52 ----2SC536K-NP(F,G)
TR30,45,46,47,50-2SA608K-NP(E,F,G)
TR49,53-2SD612K (D,E,F)
TR28,29-2SK223(F)


E C B
2SA608K-NP
2SC536K-NP
2SC461
E C B
2SD612K
D S G
2SK19
S G D
2SK223
2SK246

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

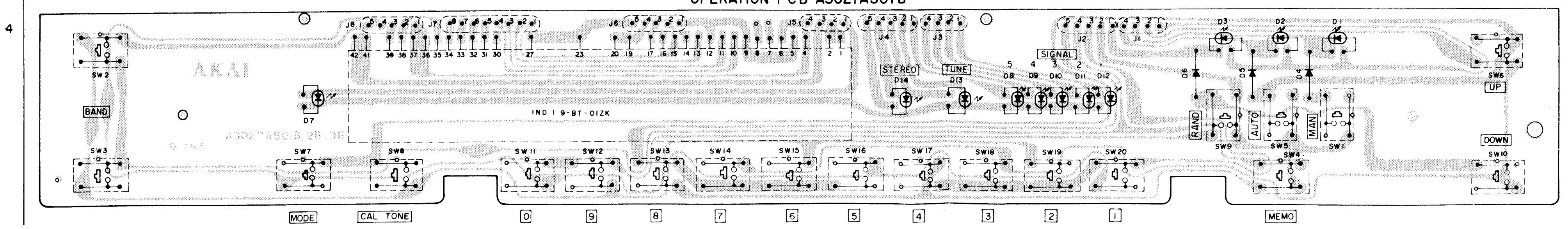
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

3) Model AT-S61J Tuner P.C Board A3027A501A and Operation P.C Board A3027A501A


ANTENNA
LOOP ANT
FM (75 OHMS)
A
B
C
D
E
1
2
3
OUTPUT
J1
LEFT
RIGHT
REMOTE
J2
FRONT END
(FD632J16)
AKAI A3027A501A
MW LOW RANGE SENS
MW HIGH RANGE SENS
AM IF
MW OSC
F.OUT
VCO 76KHz
PILOT CANCEL
D.C LEVEL
CENTER DISTORSION
FM MUTE
PLL FREQ
CAL TONE
CLOCK FREQ
RESET
IC7 TD6102P
IC9 AT-600
IC6 LA1245
IC1 LA1222
IC2 LA1235
IC4 LA6458S
IC5 LA3381
IC8 TC9125BP
IC10 TC4069UB
IC13 LB1240
IC12 TC5066BP
IC14 LB1246
IC11 M54517

TUNER PCB A3027A501A(U)

OPERATION PCB A3027A501B


4
AKAI
A3027A501B
J8
J7
J6
J5
J4
J3
J2
J1
IND 1 9-BT-012K
STEREO
TUNE
SIGNAL
D14
D13
D8
D9
D10
D11
D12
D7
D1
D2
D3
D4
D5
D6
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
BAND
RAND
AUTO
MAN
UP
DOWN
MODE
CAL TONE
0
9
8
7
6
5
4
3
2
1
MEMO

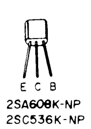
LOCATION OF IC & TR & TERMINAL

TR1,2--B2
TR3 to 5--C2
TR6,7,9,10-C1
TR11 to 13--E1
TR14--D1
TR15--E1
TR16--D1
TR17--E1
TR8--C2
TR27--A2
TR29--A6
TR30,31--C1
TR36--A3
TR37--C3
TR38 to 44--E3
TR45--D3
TR47---C3
TR48--D2
TR50,51--D2
TR52,53--D3

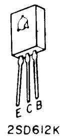
IC1,2--B2
IC4--- D2
IC5--- E1
IC6---B1
IC7---A2
IC8---B2
IC9---A3
IC10--B2
IC11---D3
IC12,13-B3
IC14---D3
IC15---D2

J1 to 3--D3
J4 to 6--C3
J7,8---B3

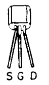
TR1,6,17--- 2SA608K-NP (E,F,G)
TR2 to 5---- 2SC536K-NP (F,G)
TR7,8,14 to 16--- 2SK246 (Y)
TR9 to 13,----2SC536K-NP (F,G)
TR27,31,36 to 44,51,52--2SC536K-NP (F,G)
TR29--------2SK223 (F)
TR30,45,47,50-2SA608K-NP (E,F,G)
TR53--------2SD612K (D,E,F)



2SA608K-NP
2SC536K-NP



2SD612K

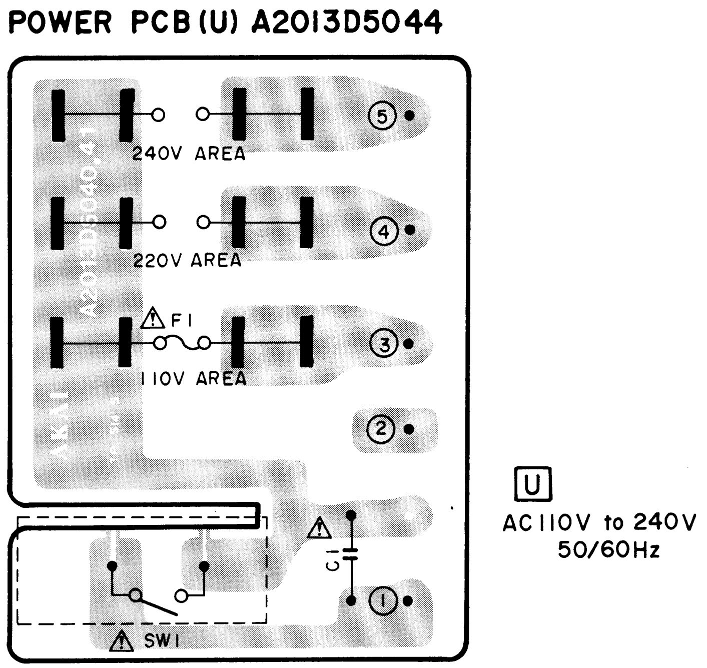


2SK223
2SK246

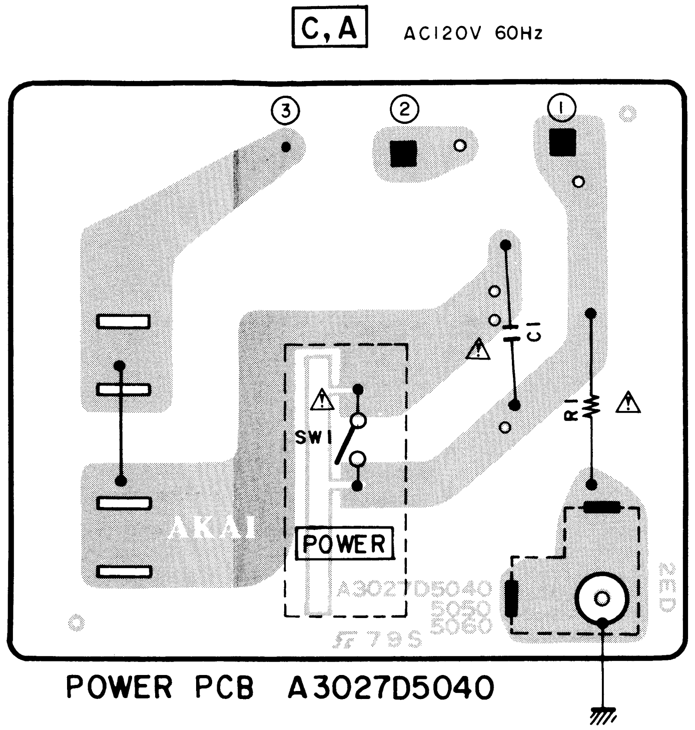
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

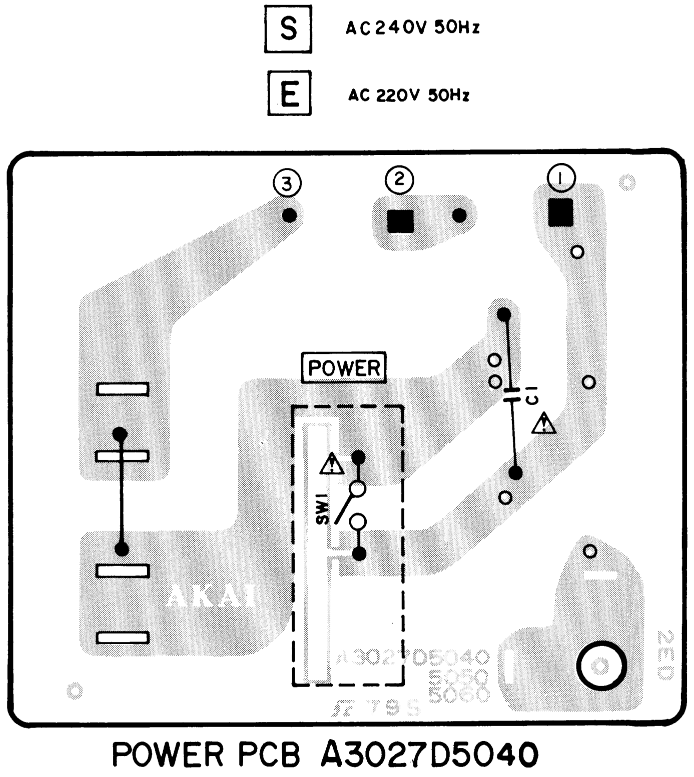
4) Model AT-S61 Power P.C Board A2013D5044 (U)


POWER PCB (U) A2013D5044
240V AREA
220V AREA
⚠ F1
110V AREA
⑤
④
③
②
①
C1
⚠
⚠ SW1
AKAI
A2013D5040,41
U
AC110V to 240V
50/60Hz

5) Model AT-S61 Power P.C Board (C, A) A3027D5040


C, A
AC120V 60Hz
③
②
①
C1
⚠
SW1
⚠
R1
⚠
POWER
AKAI
A3027D5040
5050
5060
POWER PCB A3027D5040

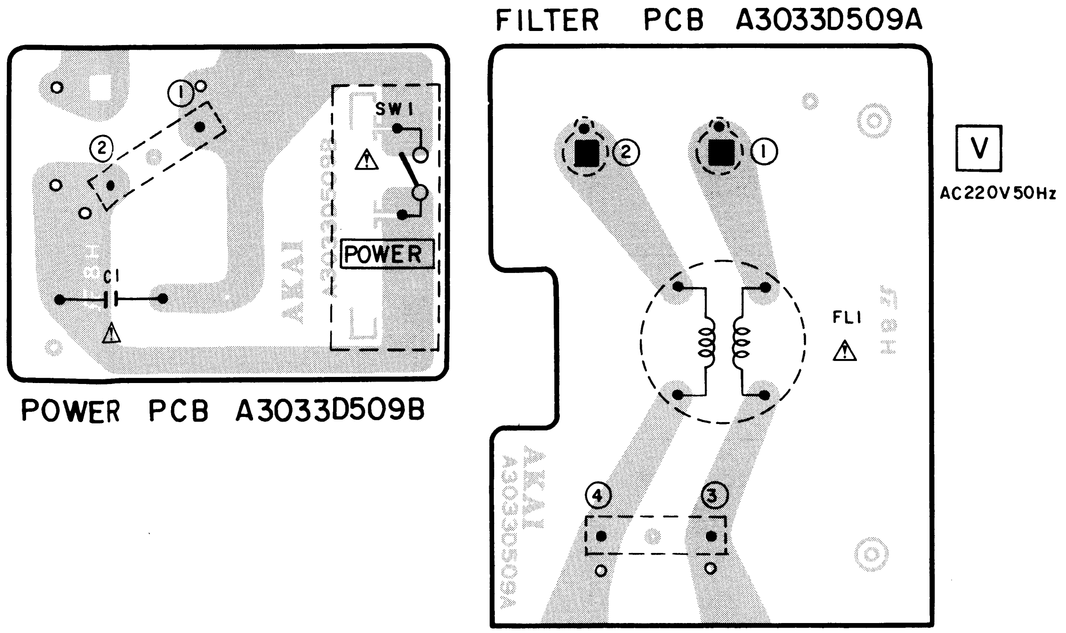
6) Model AT-S61/L Power P.C Board (E, S) A3027D5040


S
AC240V 50Hz
E
AC 220V 50Hz
③
②
①
POWER
C1
⚠
⚠
SW1
AKAI
A3027D5040
5050
5060
POWER PCB A3027D5040

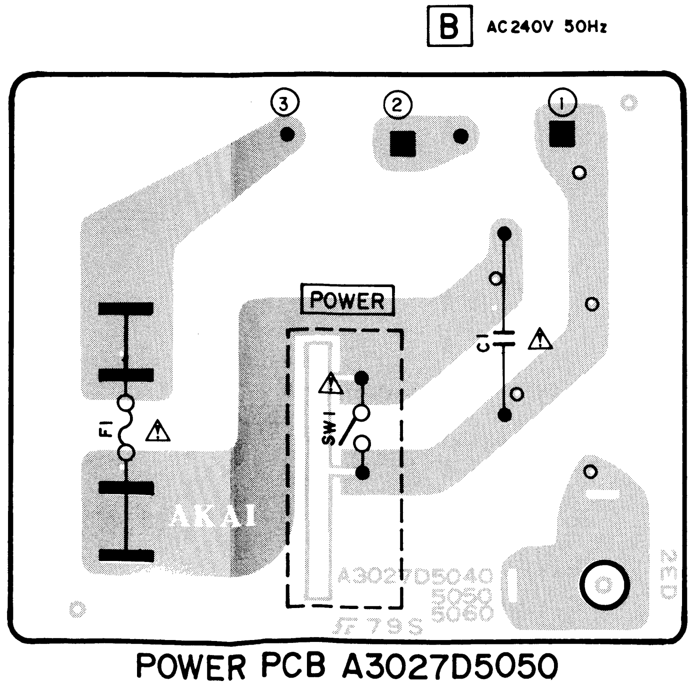
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

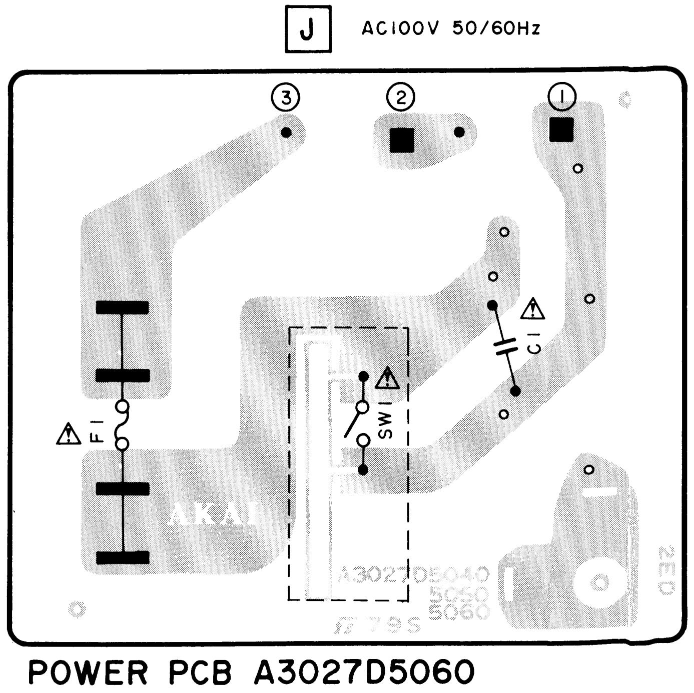
7) Model AT-S61 Power P.C Board A3033D509B and Filter P.C Board A3033D509A (V Model)

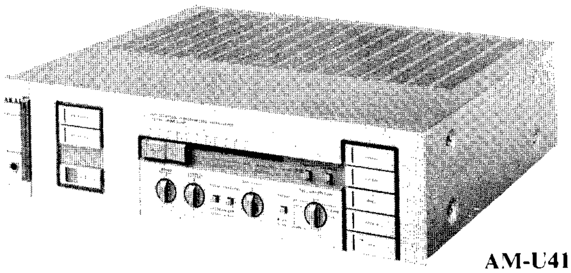

FILTER PCB A3033D509A
①
②
SW1
⚠
POWER
C1
⚠
AKAI
POWER PCB A3033D509B
②
①
FL1
⚠
④
③
AKAI
A3033D509A
V
AC220V50Hz

8) Model AT-S61L Power P.C Board A3027D5050

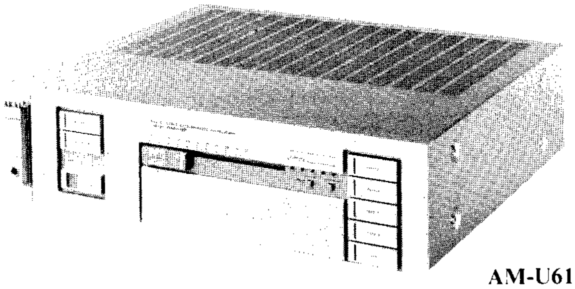

B
AC240V 50Hz
③
②
①
POWER
C1
⚠
⚠
SW1
F1
⚠
AKAI
A3027D5040
5050
5060
POWER PCB A3027D5050

9) Model AT-S61J Power P.C Board A3027D5060


J
AC100V 50/60Hz
③
②
①
⚠
C1
⚠
SW1
⚠ F1
AKAI
A3027D5040
5050
5060
POWER PCB A3027D5060



AM-U41



AM-U61

SECTION 2

SERVICE MANUAL

MODEL AM-U41, AM-U61

TABLE OF CONTENTS

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

1. MODEL AM-U41

RATED POWER OUTPUT (2 CHANNELS DRIVEN)	8 ohms	4 ohms
20 to 20,000 Hz	55W × 2/0.007%	60W × 2/0.01%
1,000 Hz	60W × 2/0.007%	65W × 2/0.01%
1 kHz, 0.7% (DIN)	65W × 2	70W × 2
POWER BANDWIDTH (IHF −3 dB, 8 OHMS)	5 Hz to 70 kHz (0.05%)	
SIGNAL TO NOISE RATIO (IHF-A)		
PHONO (MM/MC)	86/67 dB	
TUNER, TAPE, AUX	103 dB	
RESIDUAL NOISE (8 OHMS, IHF-A)	110 μV	
CHANNEL SEPARATION	60 (1 kHz)/60 (40 Hz)/50 (10 kHz) dB	
DAMPING FACTOR (8 OHMS)	60 (1 kHz)/60 (40 Hz)/52 (12.5 kHz)	
OUTPUT REQUIRED SPEAKER IMPEDANCE	A, B 4 to 16 ohms A + B: 8 to 16 ohms	
INPUT SENSITIVITY/IMPEDANCE		
PHONO MM	2.5 mV/47 kohms	
PHONO MC	0.25 mV/100 ohms	
TUNER, TAPE, AUX	150 mV/47 kohms	
OUTPUT LEVEL/IMPEDANCE TAPE REC	150 mV/1 kohm	
FREQUENCY RESPONSE		
PHONO (RIAA DEVIATION)	±0.2 dB	
TUNER, AUX, TAPE	5 Hz to 100 kHz (−2 dB)	
TONE CONTROL		
BASS	±8 dB (100 Hz)	
TREBLE	±8 dB (10 kHz)	
LOUDNESS CONTROL (VOLUME SET AT −30 dB POSITION)	+10 dB (100 Hz) +6 dB (10 kHz)	
SUBSONIC FILTER	−6 dB/Oct at 18 Hz	
PHONO MAX. INPUT (1 kHz)		
MM	250 mV	
MC	25 mV	
POWER REQUIREMENTS	100V, 50/60 Hz for Japan 120V, 60 Hz for U.S.A. and Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110V/220V/240V, 50/60 Hz switchable for other countries	
POWER CONSUMPTION	250W (U) 150W (J) 170W (A) 270W (C) 440W (B, S) 410W (E, V)	
DIMENSIONS	440 (W) × 120 (H) × 397 (D) mm (17.3 × 4.7 × 15.6 inches)	
WEIGHT	10.4 kg (22.9 lbs)	

* For improvement purposes, specifications and design are subject to change without notice.

1. MODEL AM-U61

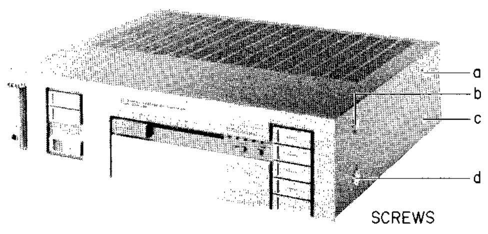
RATED POWER OUTPUT		
(2 CHANNELS DRIVEN)	8 ohms	4 ohms
20 to 20,000 Hz	75W x 2/0.007%	85W x 2/0.01%
1,000 Hz	85W x 2/0.007%	85W x 2/0.01%
1 kHz, 0.7% (DIN)	88W x 2	100W x 2
POWER BANDWIDTH		
(IHF –3 dB, 8 OHMS)	5 Hz to 70 kHz (0.05%)	
SIGNAL TO NOISE RATIO (IHF-A)		
PHONO (MM/MC)	86/67 dB	
TUNER, TAPE, AUX	103 dB	
RESIDUAL NOISE (8 OHMS, IHF-A)	110 μV	
CHANNEL SEPARATION	60 (1 kHz)/60 (40 Hz)/50 (10 kHz) dB	
DAMPING FACTOR (8 OHMS)	60 (1 kHz)/60 (40 Hz)/52 (12.5 kHz)	
OUTPUT		
REQUIRED SPEAKER	A, B 4 to 16 ohms	
IMPEDANCE	A + B: 8 to 16 ohms	
INPUT SENSITIVITY/IMPEDANCE		
PHONO MM	2.5 mV/33, 47, 100 kohms (switchable)	
PHONO MC	0.25 mV/100 ohms	
TUNER, AUX, TAPE PLAY	150 mV/47 kohms	
OUTPUT LEVEL/IMPEDANCE		
TAPE REC	150 mV/1 kohm	
FREQUENCY RESPONSE		
PHONO (RIAA DEVIATION)	±0.2 dB	
TUNER, AUX, TAPE PLAY	5 Hz to 100 kHz (–2 dB)	
TONE CONTROL		
BASS	±8 dB (100 Hz)	
TREBLE	±8 dB (10 kHz)	
LOUDNESS CONTROL		
(VOLUME SET AT –30 dB POSITION)	+10 dB (100 Hz)	
	+6 dB (10 kHz)	
SUBSONIC FILTER	–6 dB/Oct at 18 Hz	
PHONO MAX. INPUT (1 kHz)		
MM	250 mV	
MC	25 mV	
POWER REQUIREMENTS	100V, 50/60 Hz for Japan 120V, 60 Hz for U.S.A. and Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110V/220V/240V, 50/60 Hz switchable for other countries	
POWER CONSUMPTION	300W (U) 200W (J) 220W (A) 350W (C) 650W (B, S) 550W (E, V)	
DIMENSIONS	440 (W) x 120 (H) x 397 (D) mm (17.3 x 4.7 x 15.6 inches)	
WEIGHT	12 kg (26.4 lbs)	

* For improvement purposes, specifications and design are subject to change without notice.

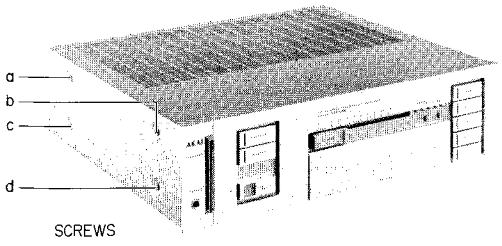
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

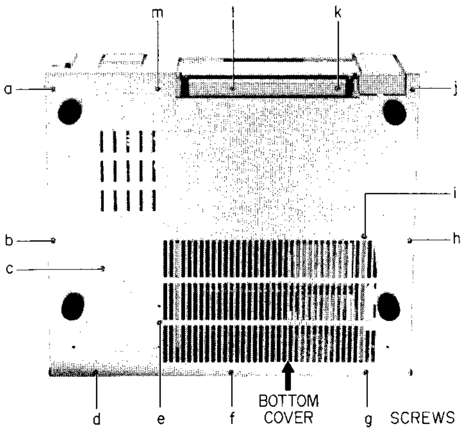
1


a
b
c
d
SCREWS

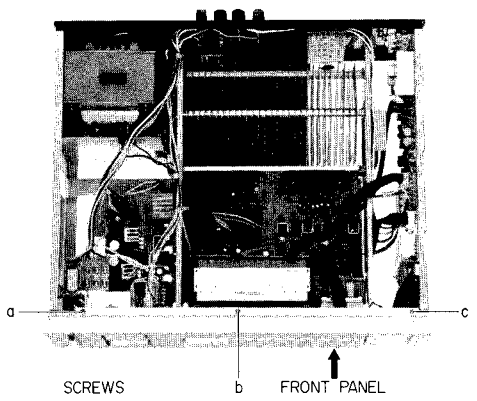
2


a
b
c
d
SCREWS

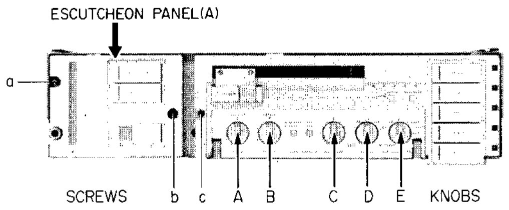
3


m
l
k
a
j
i
b
h
c
d
e
f
BOTTOM COVER
g
SCREWS

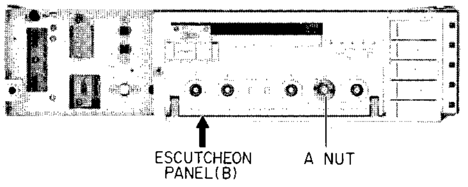
4


a
c
SCREWS
b
FRONT PANEL

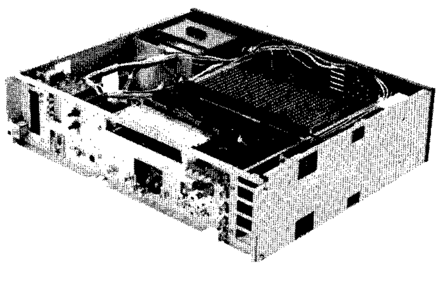
5


ESCUTCHEON PANEL(A)
a
SCREWS
b
c
A
B
C
D
E
KNOBS

6


ESCUTCHEON PANEL(B)
A NUT

7



III. CONTROLS

1) MODEL AM-U41

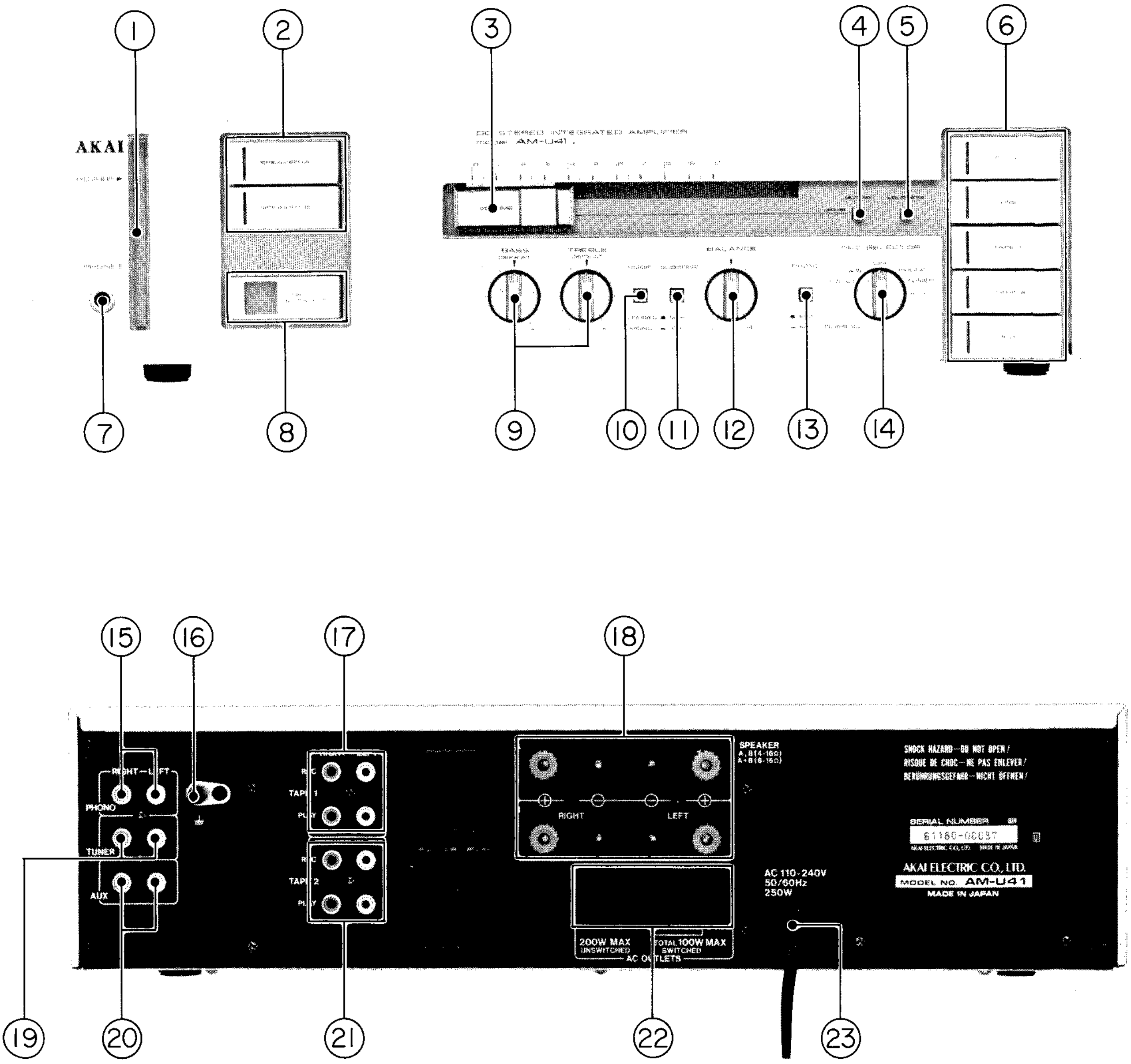

1
2
3
4
5
6
AKAI
AM-U41
7
8
9
10
11
12
13
14
15
16
17
18
RIGHT
LEFT
PHONO
TUNER
AUX
TAPE 1
TAPE 2
SPEAKER
RIGHT
LEFT
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
SERIAL NUMBER
AKAI ELECTRIC CO., LTD.
MODEL NO. AM-U41
MADE IN JAPAN
AC 110-240V
50/60Hz
250W
200W MAX
UNSWITCHED
TOTAL 100W MAX
SWITCHED
AC OUTLETS
19
20
21
22
23

Fig. 1 Controls

1. POWER SWITCH
2. SPEAKER SWITCHES WITH INDICATORS
3. VOLUME CONTROL
4. MUTING BUTTON
5. LOUDNESS BUTTON
6. INPUT SWITCHES WITH INDICATORS
7. HEADPHONE JACK (PHONES)
8. LINE STRAIGHT SWITCH WITH INDICATOR
9. TONE CONTROLS
10. MODE SELECTOR
11. SUBSONIC SWITCH
12. STEREO BALANCE CONTROL
    (L: LEFT, R: RIGHT)
13. PHONO SELECTOR
14. RECORDING (REC) SELECTOR
15. PHONO JACKS
16. GROUND TERMINAL ($\perp$)
17. TAPE 1 REC/PLAY JACKS
18. A AND B SPEAKER SYSTEM TERMINALS
19. TUNER JACKS
20. AUX JACKS
21. TAPE 2 REC/PLAY JACKS
22. AC OUTLETS (SOME MODELS ARE NOT EQUIPPED WITH THIS FACILITY.)
23. POWER CORD

2) MODEL AM-U61

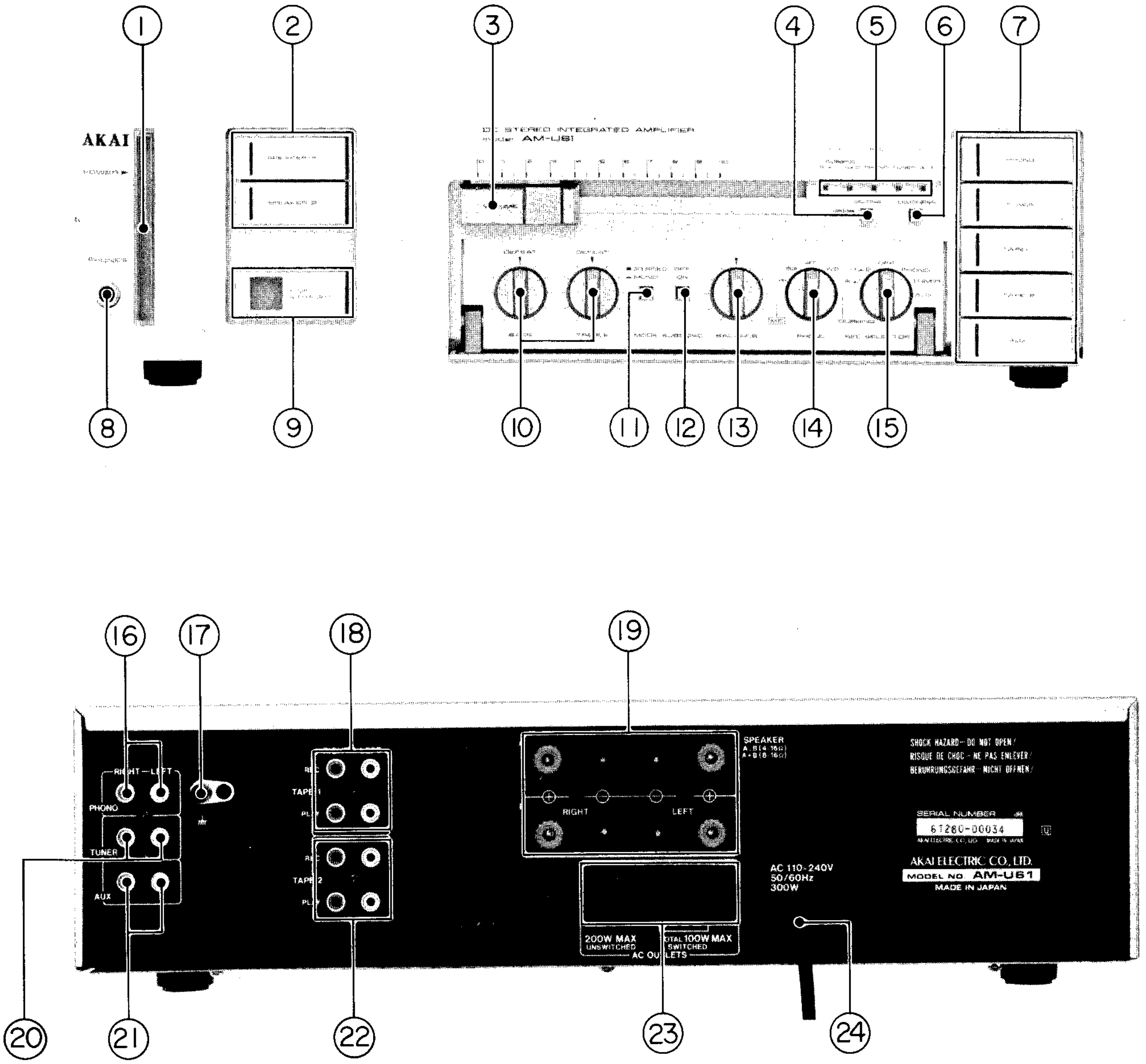

1
2
3
4
5
6
7
AKAI
DC STEREO INTEGRATED AMPLIFIER
AM-U61
8
9
10
11
12
13
14
15
16
17
18
19
PHONO
RIGHT — LEFT
TUNER
AUX
TAPE 1
TAPE 2
SPEAKER
RIGHT
LEFT
SHOCK HAZARD—DO NOT OPEN/
RISQUE DE CHOC – NE PAS ENLEVER/
BERUHRUNGSGEFAHR – NICHT OFFNEN/
SERIAL NUMBER
6T280-00034
AKAI ELECTRIC CO., LTD.
MODEL NO. AM-U61
MADE IN JAPAN
AC 110-240V
50/60Hz
300W
200W MAX
UNSWITCHED
TOTAL 100W MAX
SWITCHED
AC OUTLETS
20
21
22
23
24

Fig. 2 Controls

1. POWER SWITCH
2. SPEAKERS SWITCHES WITH INDICATORS
3. VOLUME CONTROL
4. MUTING BUTTON
5. RECORDING (REC) INDICATORS
6. LOUDNESS BUTTON
7. INPUT SWITCHES WITH INDICATORS
8. HEADPHONE JACK (PHONES)
9. LINE STRAIGHT SWITCH WITH INDICATOR
10. TONE CONTROLS
11. MODE SELECTOR
12. SUBSONIC SWITCH
13. STEREO BALANCE CONTROL
    (L: LEFT, R: RIGHT)
14. PHONO SELECTOR
15. RECORDING (REC) SELECTOR
16. PHONO JACKS
17. GROUND TERMINAL (⏚)
18. TAPE 1 REC/PLAY JACKS
19. A AND B SPEAKER SYSTEM TERMINALS
20. TUNER JACKS
21. AUX JACKS
22. TAPE 2 REC/PLAY JACKS
23. AC OUTLETS (SOME MODELS ARE NOT
    EQUIPPED WITH THIS FACILITY.)
24. POWER CORD

IV. PRINCIPAL PARTS LOCATION

1) MODEL AM-U41

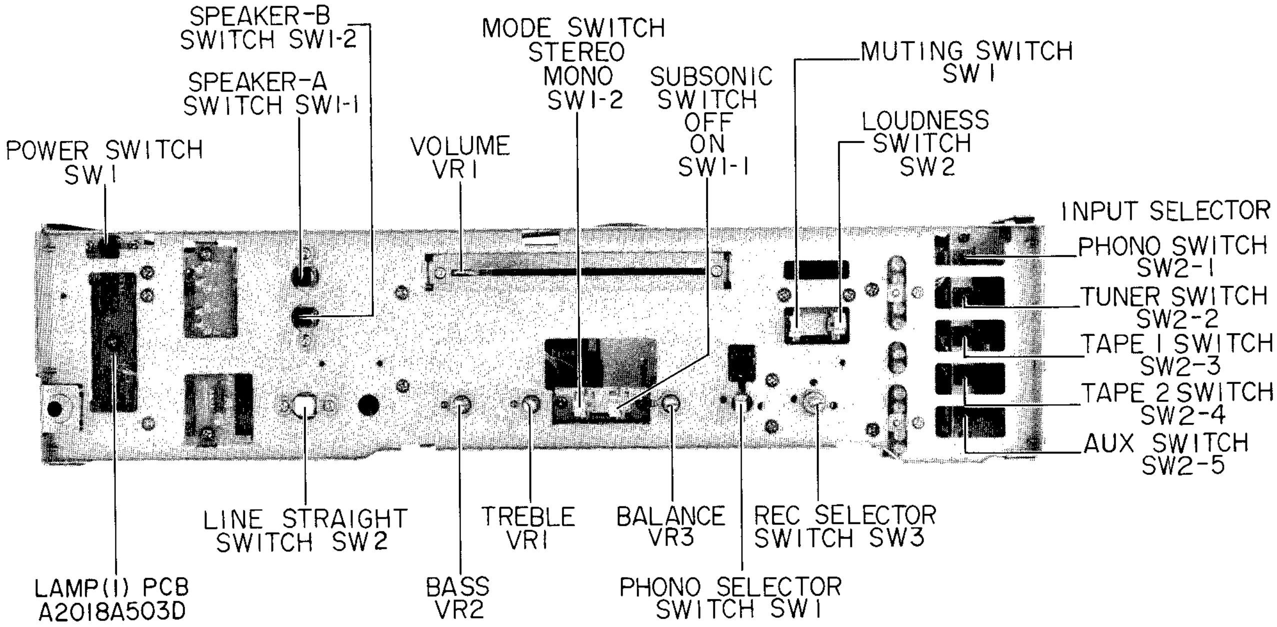

SPEAKER-B SWITCH SW1-2
SPEAKER-A SWITCH SW1-1
POWER SWITCH SW1
VOLUME VR1
MODE SWITCH STEREO MONO SW1-2
SUBSONIC SWITCH OFF ON SW1-1
MUTING SWITCH SW1
LOUDNESS SWITCH SW2
INPUT SELECTOR
PHONO SWITCH SW2-1
TUNER SWITCH SW2-2
TAPE 1 SWITCH SW2-3
TAPE 2 SWITCH SW2-4
AUX SWITCH SW2-5
LINE STRAIGHT SWITCH SW2
TREBLE VR1
BALANCE VR3
REC SELECTOR SWITCH SW3
LAMP(1) PCB A2018A503D
BASS VR2
PHONO SELECTOR SWITCH SW1

Fig. 3 Front View

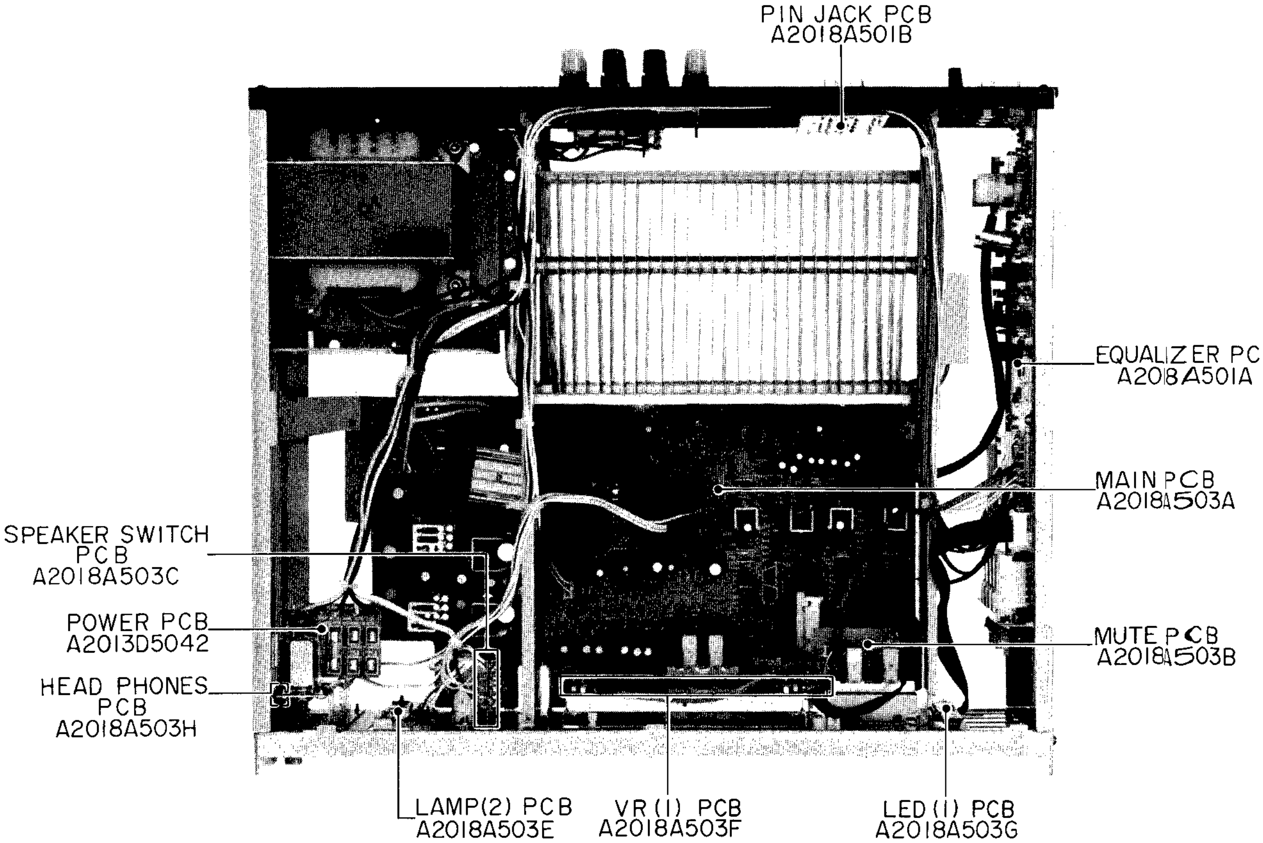

PIN JACK PCB A2018A501B
EQUALIZER PCB A2018A501A
MAIN PCB A2018A503A
SPEAKER SWITCH PCB A2018A503C
POWER PCB A2013D5042
HEAD PHONES PCB A2018A503H
MUTE PCB A2018A503B
LAMP(2) PCB A2018A503E
VR(1) PCB A2018A503F
LED(1) PCB A2018A503G

Fig. 4 Top View

2) MODEL AM-U61

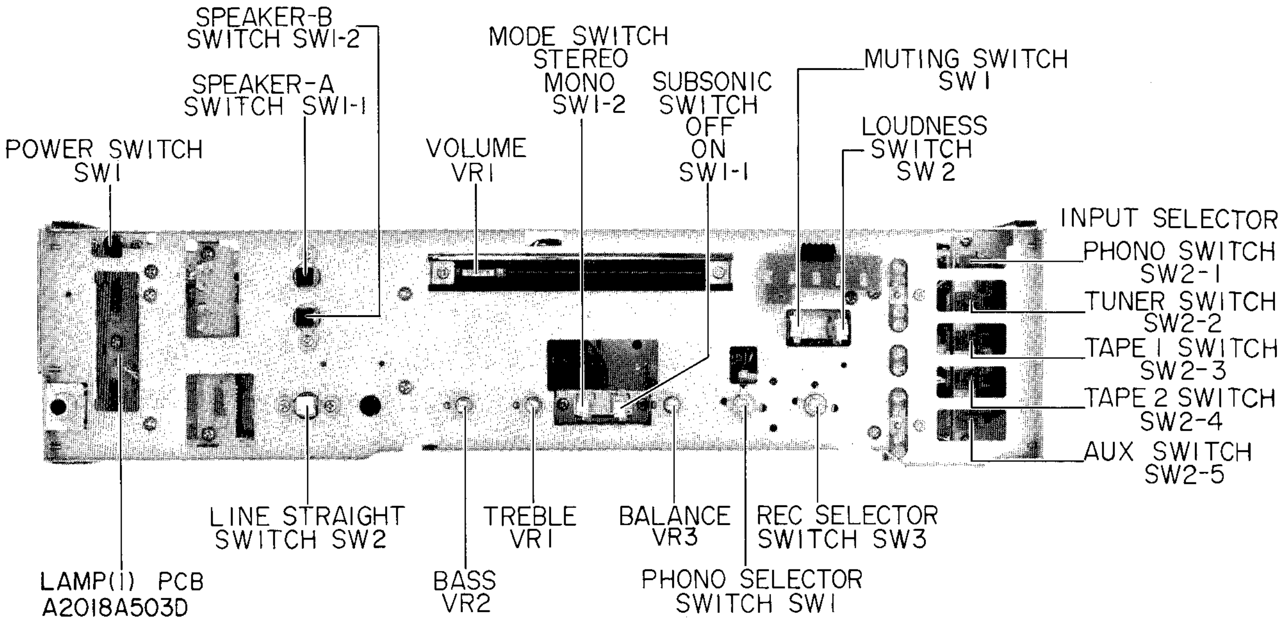

SPEAKER-B SWITCH SW1-2
SPEAKER-A SWITCH SW1-1
POWER SWITCH SW1
MODE SWITCH STEREO MONO SW1-2
VOLUME VR1
SUBSONIC SWITCH OFF ON SW1-1
MUTING SWITCH SW1
LOUDNESS SWITCH SW2
INPUT SELECTOR
PHONO SWITCH SW2-1
TUNER SWITCH SW2-2
TAPE 1 SWITCH SW2-3
TAPE 2 SWITCH SW2-4
AUX SWITCH SW2-5
LINE STRAIGHT SWITCH SW2
TREBLE VR1
BALANCE VR3
REC SELECTOR SWITCH SW3
LAMP(1) PCB A2018A503D
BASS VR2
PHONO SELECTOR SWITCH SW1

Fig. 5 Front View

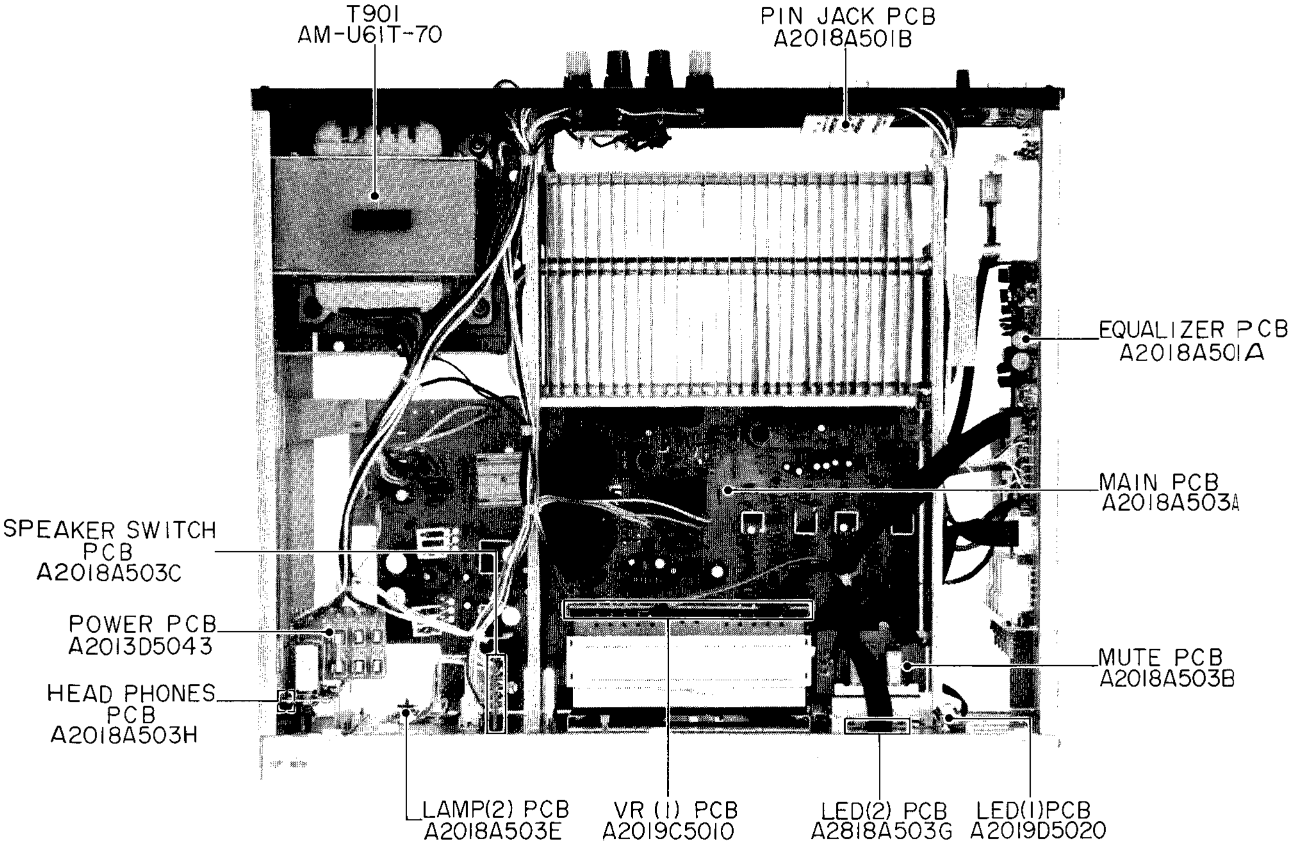

T901 AM-U61T-70
PIN JACK PCB A2018A501B
EQUALIZER PCB A2018A501A
MAIN PCB A2018A503A
SPEAKER SWITCH PCB A2018A503C
POWER PCB A2013D5043
MUTE PCB A2018A503B
HEAD PHONES PCB A2018A503H
LAMP(2) PCB A2018A503E
VR (1) PCB A2019C5010
LED(2) PCB A2818A503G
LED(1)PCB A2019D5020

Fig. 6 Top View

V. VOLTAGE CONVERSION (U/T ONLY)

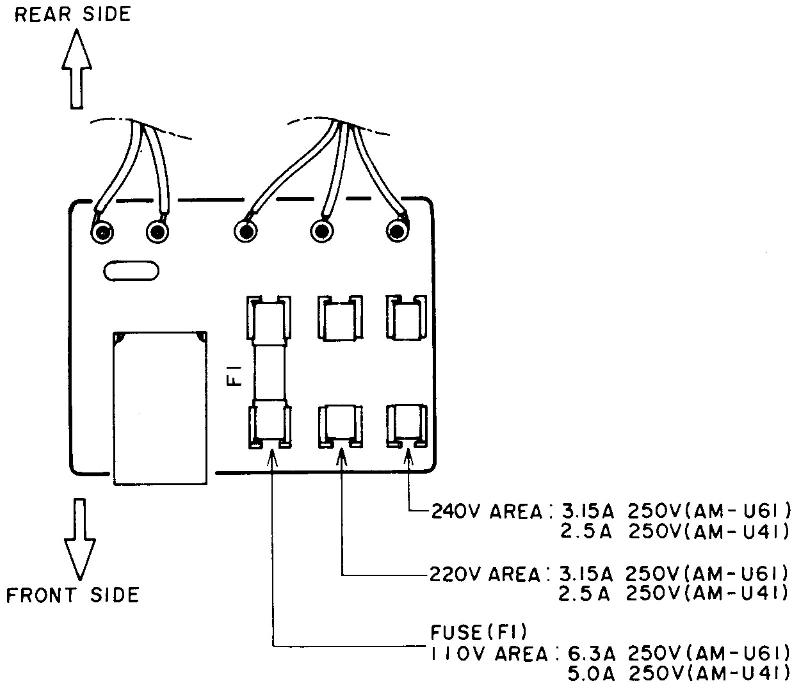

REAR SIDE
FRONT SIDE
F1
240V AREA : 3.15A 250V(AM-U61)
2.5A 250V(AM-U41)
220V AREA : 3.15A 250V(AM-U61)
2.5A 250V(AM-U41)
FUSE(F1)
110V AREA : 6.3A 250V(AM-U61)
5.0A 250V(AM-U41)

Fig. 7 Voltage Conversion (U Model only)

Models for JAPAN, Canada, U.S.A. Europe, UK and Australia are not equipped with this facility.

Each machine is preset at the factory according to destination, but some machines can be set to 220V or 240V as required.

If voltage change is necessary, this can be accomplished as follows.

1) Disconnect the AC power cord.
2) Loosen holding screws and remove upper case.
3) Remove exsiting line voltage fuse in proper fuse holder, explicity following instructions printed on the rear panel.

VI. DC OFF-SET VOLTAGE ADJUSTMENT (AM-U61 ONLY)

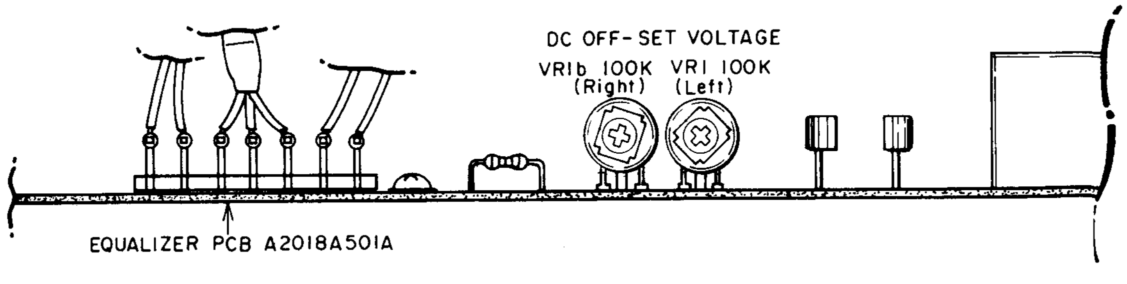

DC OFF-SET VOLTAGE
VR1b 100K
(Right)
VR1 100K
(Left)
EQUALIZER PCB A2018A501A

Fig. 8 Equalizer P.C Board A2018A501A

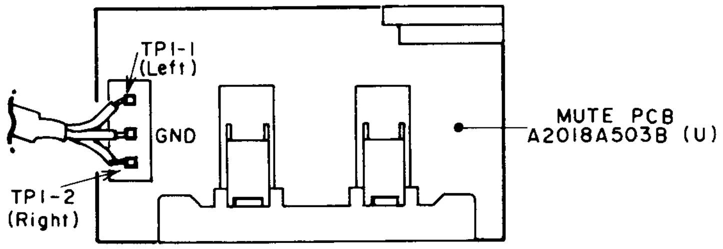

TP1-1
(Left)
GND
TP1-2
(Right)
MUTE PCB
A2018A503B (U)

Fig. 9 Mute P.C.B A2018A503B

Set INPUT selector switch to PHONO and PHONO selector switch to MC position. Connect digital voltmeter (or DC voltmeter) to TP1-1 (Left), TP1-2 (Right). Adjust the VR1 (Left), VR1b (Right) on the Equalizer P. C Board so that the voltmeter reads 0 ± 1 mV.

VII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

1) MODEL AM-U41

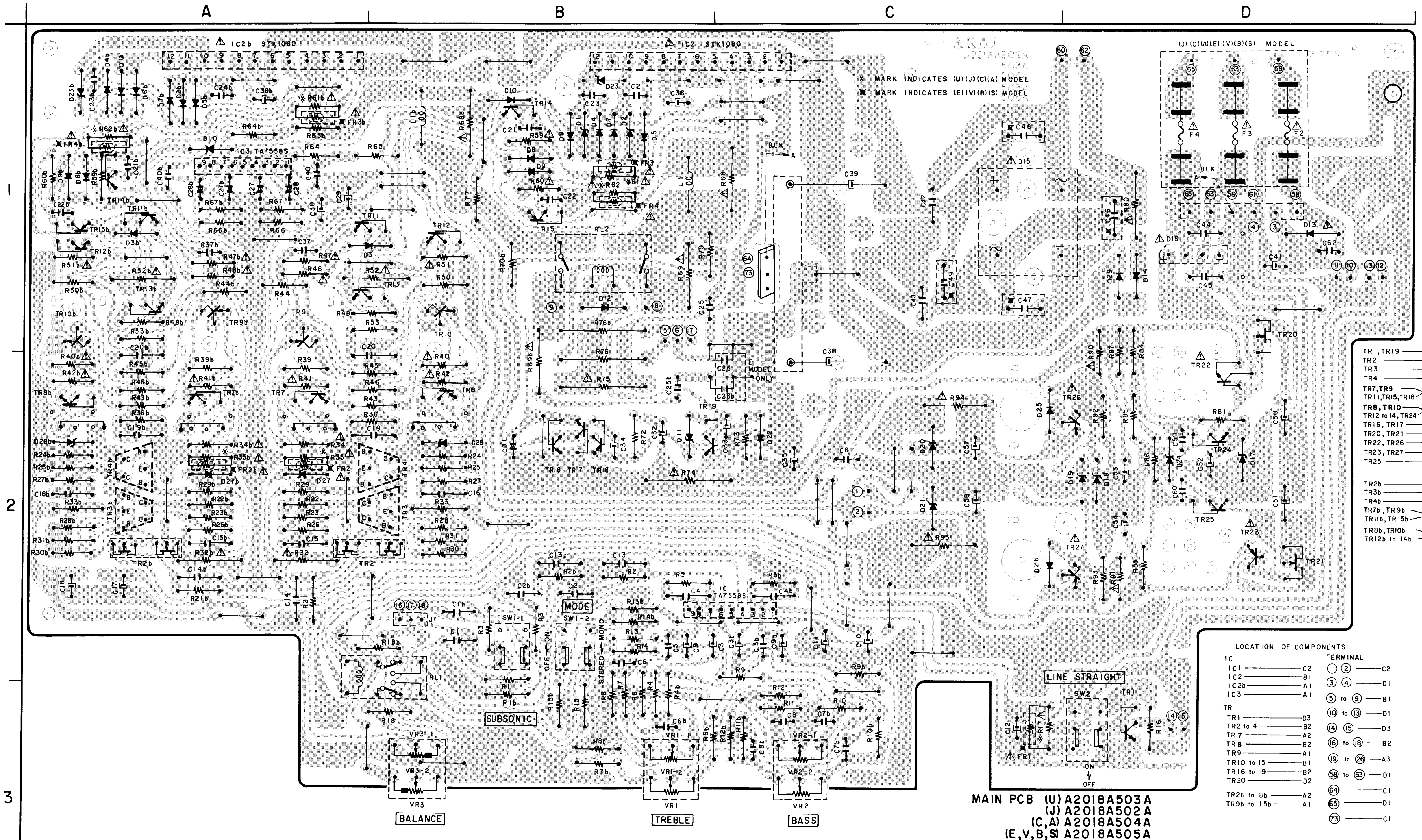
P.C Board Title	P.C Board Number
POWER P.C Board (U)	A2013D5042
POWER P.C Board (C/A)	A2018D5060
POWER P.C Board (E/V/B/S)	A2018D5072
POWER P.C Board (J)	A2013D5082
EQUALIZER P.C Board	A2018A501A
PIN JACK P.C Board	A2018A501B
MAIN P.C Board (U)	A2018A503A
MAIN P.C Board (J)	A2018A502A
MAIN P.C Board (C/A)	A2018A504A
MAIN P.C Board (E/V/B/S)	A2018A505A
MUTE P.C Board (U)	A2018A503B
MUTE P.C Board (J)	A2018A502B
MUTE P.C Board (C/A)	A2018A504B
MUTE P.C Board (E/V/B/S)	A2018A505B
SPEAKER SW P.C Board (U)	A2018A503C
SPEAKER SW P.C Board (J)	A2018A502C
SPEAKER SW P.C Board (C/A)	A2018A504C
SPEAKER SW P.C Board (E/V/B/S)	A2018A505C
LAMP (1) P.C Board (U)	A2018A503D
LAMP (1) P.C Board (J)	A2018A502D
LAMP (1) P.C Board (C/A)	A2018A504D
LAMP (1) P.C Board (E/V/B/S)	A2018A505D
LAMP (2) P.C Board (U)	A2018A503E
LAMP (2) P.C Board (J)	A2018A502E
LAMP (2) P.C Board (C/A)	A2018A504E
LAMP (2) P.C Board (E/V/B/S)	A2018A505E
VR (1) P.C Board (U)	A2018A503F
VR (1) P.C Board (J)	A2018A502F
VR (1) P.C Board (C/A)	A2018A504F
VR (1) P.C Board (E/V/B/S)	A2018A505F
LED (1) P.C Board (U)	A2018A503G
LED (1) P.C Board (J)	A2018A502G
LED (1) P.C Board (C/A)	A2018A504G
LED (1) P.C Board (E/V/B/S)	A2018A505G
HEADPHONES P.C Board (U)	A2018A503H
HEADPHONES P.C Board (J)	A2018A502H
HEADPHONES P.C Board (C/A)	A2018A504H
HEADPHONES P.C Board (E/V/B/S)	A2018A505H
TERMINAL P.C Board	A2018D5070

2) MODEL AM-U61

P.C Board Title	P.C Board Number
POWER P.C Board (U)	A2013D5043
POWER P.C Board (E/V/B/S)	A2013D5073
POWER P.C Board (J)	A2013D5083
POWER P.C Board (C/A)	A2018D5061
EQUALIZER P.C Board	A2018A501A
PIN JACK P.C Board	A2018A501B
MAIN P.C Board (U)	A2018A503A
MAIN P.C Board (J)	A2018A502A
MAIN P.C Board (C/A)	A2018A504A
MAIN P.C Board (E/V/B/S)	A2018A505A
MUTE P.C Board (U)	A2018A503B
MUTE P.C Board (J)	A2018A502B
MUTE P.C Board (C/A)	A2018A504B
MUTE P.C Board (E/V/B/S)	A2018A505B
SPEAKER SW P.C Board (U)	A2018A503C
SPEAKER SW P.C Board (J)	A2018A502C
SPEAKER SW P.C Board (C/A)	A2018A504C
SPEAKER SW P.C Board (E/V/B/S)	A2018A505C
LAMP (1) P.C Board (U)	A2018A503D
LAMP (1) P.C Board (J)	A2018A502D
LAMP (1) P.C Board (C/A)	A2018A504D
LAMP (1) P.C Board (E/V/B/S)	A2018A505D
LAMP (2) P.C Board (U)	A2018A503E
LAMP (2) P.C Board (J)	A2018A502E
LAMP (2) P.C Board (C/A)	A2018A504E
LAMP (2) P.C Board (E/V/B/S)	A2018A505E
HEADPHONES P.C Board (U)	A2018A503H
HEADPHONES P.C Board (J)	A2018A502H
HEADPHONES P.C Board (C/A)	A2018A504H
HEADPHONES P.C Board (E/V/B/S)	A2018A505H
VR (1) P.C Board	A2019C5010
TERMINAL P.C Board	A2018D5070
LED (1) P.C Board (V)	A2018A503G
LED (1) P.C Board (J)	A2018A502G
LED (1) P.C Board (C/A)	A2018A504G
LED (1) P.C Board (E/V/B/S)	A2018A505G
LED (2) P.C Board	A2019D5020

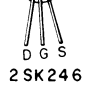
2. COMPOSITION OF VARIOUS P.C BOARDS

1) Model AM-U41 MAIN P.C Board A2018A503A (U), A2018A502A (J), A2018A504A (C/A), A2018A505A (E/V/B/S)

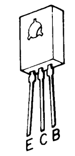


A
B
C
D
1
2
3
⚠ IC2b STK1080
⚠ IC2 STK1080
IC3 TA7558S
IC1 TA7558S
AKAI
A2018A502A
503A
X MARK INDICATES (U)(J)(C)(A) MODEL
✱ MARK INDICATES (E)(V)(B)(S) MODEL
(J)(C)(A)(E)(V)(B)(S) MODEL
F4
F3
F2
BLK
RL1
RL2
E MODEL ONLY
MODE
SW1-1
SW1-2
OFF ON
STEREO MONO
SUBSONIC
LINE STRAIGHT
SW2
ON OFF
VR3-1
VR3-2
VR3
BALANCE
VR1-1
VR1-2
VR1
TREBLE
VR2-1
VR2-2
VR2
BASS
J7
TR1
TR2
TR3
TR4
TR7
TR8
TR9
TR10
TR11
TR12
TR13
TR14
TR15
TR16 TR17 TR18
TR19
TR20
TR21
TR22
TR23
TR24
TR25
TR26
TR27
TR2b
TR3b
TR4b
TR7b
TR8b
TR9b
TR10b
TR11b
TR12b
TR13b
TR14b
TR15b
D15
D16
L1
L1b

MAIN PCB (U) A2018A503A
(J) A2018A502A
(C,A) A2018A504A
(E,V,B,S) A2018A505A



2SK246



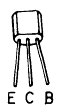
2SA1144
2SC2704
2SD600K
2SB631K

TR1, TR19 —— 2SD863-V8 (E,F)
TR2 —— 2SK150 (GR, BL)
TR3 —— 2SC2259 (G, H)
TR4 —— 2SA979 (G, H)
TR7, TR9, TR11, TR15, TR18 —— 2SA970 (GR, BL)
TR8, TR10, TR12 to 14, TR24 —— 2SC2240 (GR, BL)
TR16, TR17 —— 2SC536K-NP (E, F)
TR20, TR21 —— 2SK246 (GR)
TR22, TR26 —— 2SD600K (E, F)
TR23, TR27 —— 2SB631K (E, F)
TR25 —— 2SA984K (F)

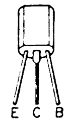
TR2b —— 2SK150 (GR, BL)
TR3b —— 2SC2259 (G, H)
TR4b —— 2SA979 (G, H)
TR7b, TR9b, TR11b, TR15b —— 2SA970 (GR, BL)
TR8b, TR10b, TR12b to 14b —— 2SC2240 (GR, BL)

LOCATION OF COMPONENTS

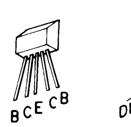
IC		TERMINAL	
IC1	C2	① ②	C2
IC2	B1	③ ④	D1
IC2b	A1	⑤ to ⑨	B1
IC3	A1	⑩ to ⑬	D1
TR		⑭ ⑮	D3
TR1	D3	⑯ to ⑱	B2
TR2 to 4	B2	⑲ to ㉖	A3
TR7	A2	(58) to (63)	D1
TR8	B2	(64)	C1
TR9	A1	(65)	D1
TR10 to 15	B1	(73)	C1
TR16 to 19	B2		
TR20	D2		
TR2b to 8b	A2		
TR9b to 15b	A1		



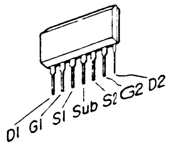
2SC2240
2SA970
2SC536K-NP



2SD863



2SC2259
2SA979



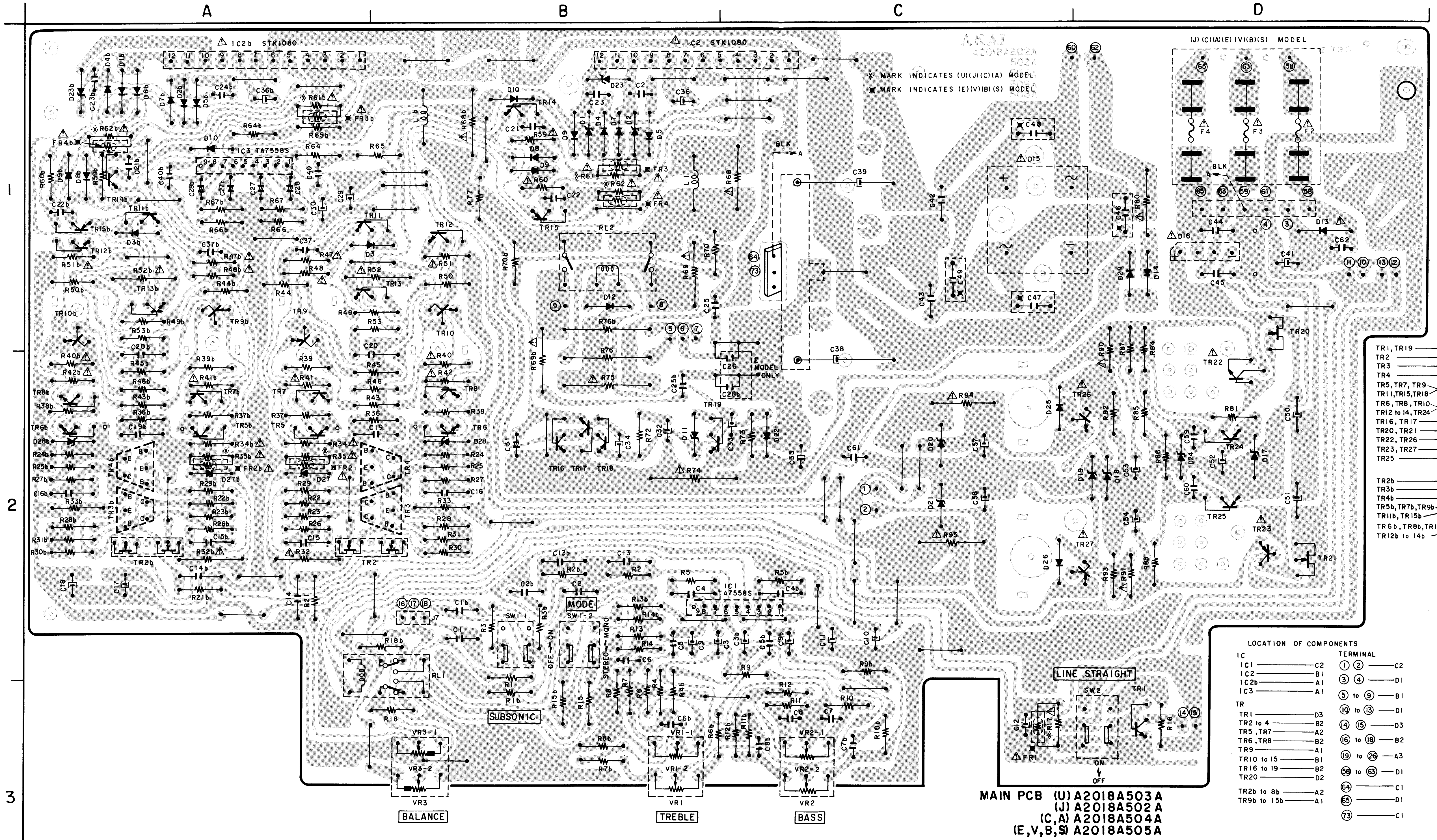
DI GI SI Sub S2 G2 D2

2SK150

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

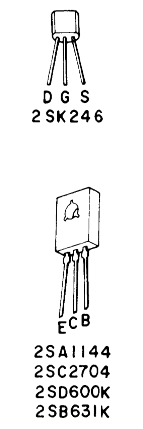
2) Model AM-U61 MAIN P.C Board A2018A503A (U), A2018A502A (J), A2018A504A (C/A), A2018A505A (E/V/B/S)


A
B
C
D
1
2
3
⚠ IC2b STK1080
⚠ IC2 STK1080
IC3 TA7558S
IC1 TA7558S
AKAI A2018A502A 503A
(J) (C)(A)(E) (V)(B)(S) MODEL
BLK
RL1
RL2
E MODEL ONLY
MODE
SUBSONIC
OFF — ON
STEREO — MONO
LINE STRAIGHT
ON OFF
VR3-1
VR3-2
VR3
VR1-1
VR1-2
VR1
VR2-1
VR2-2
VR2
BALANCE
TREBLE
BASS

※ MARK INDICATES (U)(J)(C)(A) MODEL

■ MARK INDICATES (E)(V)(B)(S) MODEL

MAIN PCB (U) A2018A503A
(J) A2018A502A
(C,A) A2018A504A
(E,V,B,S) A2018A505A


D G S
2SK246
ECB
2SA1144
2SC2704
2SD600K
2SB631K

TR1, TR19 —— 2SD863-V8(E,F)
TR2 —— 2SK150 (GR, BL)
TR3 —— 2SC2259(G, H)
TR4 —— 2SA979(G, H)
TR5, TR7, TR9, TR11, TR15, TR18 > 2SA970(GR, BL)
TR6, TR8, TR10, TR12 to 14, TR24 > 2SC2240 (GR, BL)
TR16, TR17 —— 2SC536K-NP(E,F)
TR20, TR21 —— 2SK246 (GR)
TR22, TR26 —— 2SD600K(E,F)
TR23, TR27 —— 2SB631K(E,F)
TR25 —— 2SA984K(F)

TR2b —— 2SK150(GR, BL)
TR3b —— 2SC2259(G, H)
TR4b —— 2SA979(G, H)
TR5b, TR7b, TR9b, TR11b, TR15b > 2SA970(GR, BL)
TR6b, TR8b, TR10b, TR12b to 14b > 2SC2240(GR, BL)

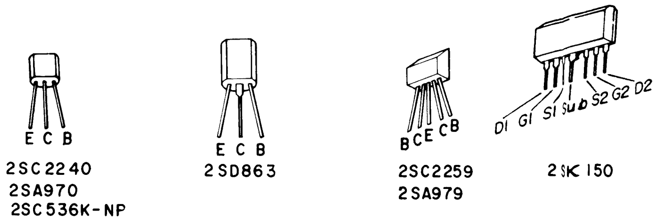
LOCATION OF COMPONENTS

IC
IC1 —— C2
IC2 —— B1
IC2b —— A1
IC3 —— A1

TR
TR1 —— D3
TR2 to 4 —— B2
TR5, TR7 —— A2
TR6, TR8 —— B2
TR9 —— A1
TR10 to 15 —— B1
TR16 to 19 —— B2
TR20 —— D2

TR2b to 8b —— A2
TR9b to 15b —— A1

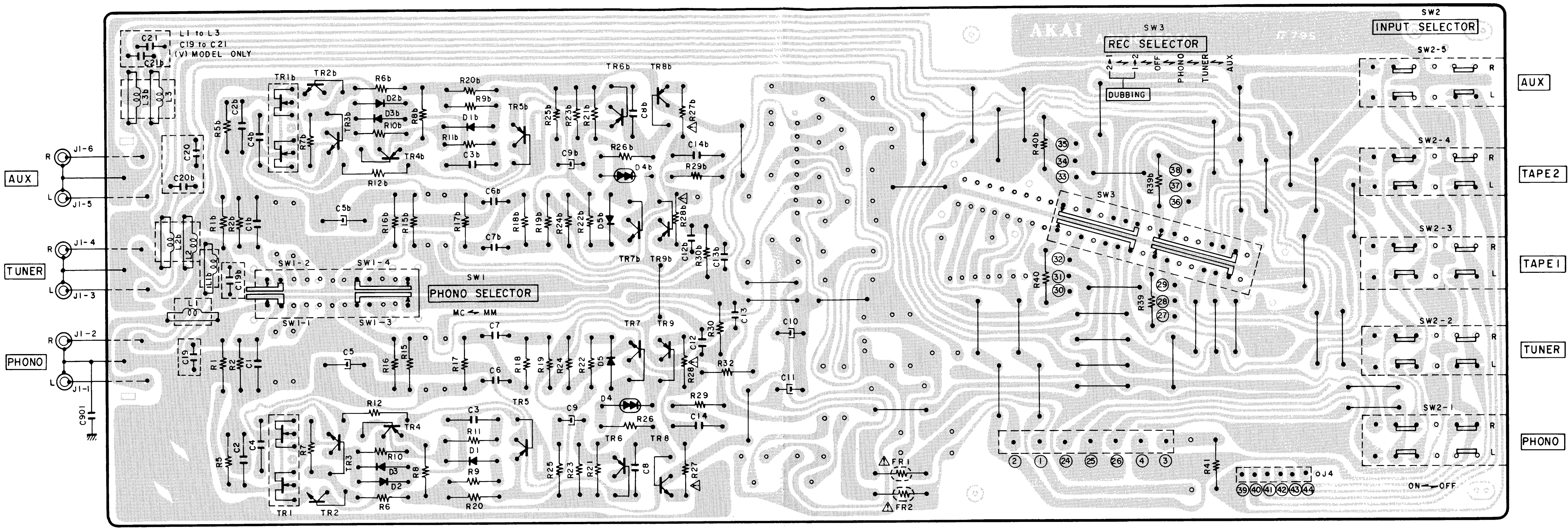
TERMINAL
① ② —— C2
③ ④ —— D1
⑤ to ⑨ —— B1
⑩ to ⑬ —— D1
⑭ ⑮ —— D3
⑯ to ⑱ —— B2
⑲ to ㉖ —— A3
(58) to (63) —— D1
(64) —— C1
(65) —— D1
(73) —— C1


E C B
2SC2240
2SA970
2SC536K-NP
E C B
2SD863
B C E C B
2SC2259
2SA979
D1 G1 S1 Sub S2 G2 D2
2SK 150

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

3) Model AM-U41 EQUALIZER P.C Board A2018A501A

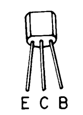

L1 to L3
C19 to C21
(V) MODEL ONLY
AUX
TUNER
PHONO
J1-6
J1-5
J1-4
J1-3
J1-2
J1-1
C901
SW1-2
SW1-4
SW1-1
SW1-3
SW1
PHONO SELECTOR
MC ← MM
AKAI
SW3
REC SELECTOR
DUBBING
OFF
PHONO
TUNER
AUX
SW2
INPUT SELECTOR
SW2-5
SW2-4
SW2-3
SW2-2
SW2-1
AUX
TAPE2
TAPE1
TUNER
PHONO
ON ← OFF
J4
FR1
FR2

EQUALIZER PCB A2018A501A

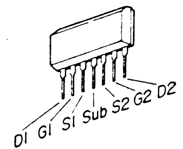
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

TR1, 1b —— 2SK270(GR, BL)
TR2, 2b; TR3, 3b; TR7, 7b —— 2SC2240(GR, BL)
TR4 to 6; TR4b to 6b —— 2SA970(GR, BL)
TR8, 8b —— 2SC2274K(F)
TR9, 9b —— 2SA984K(F)

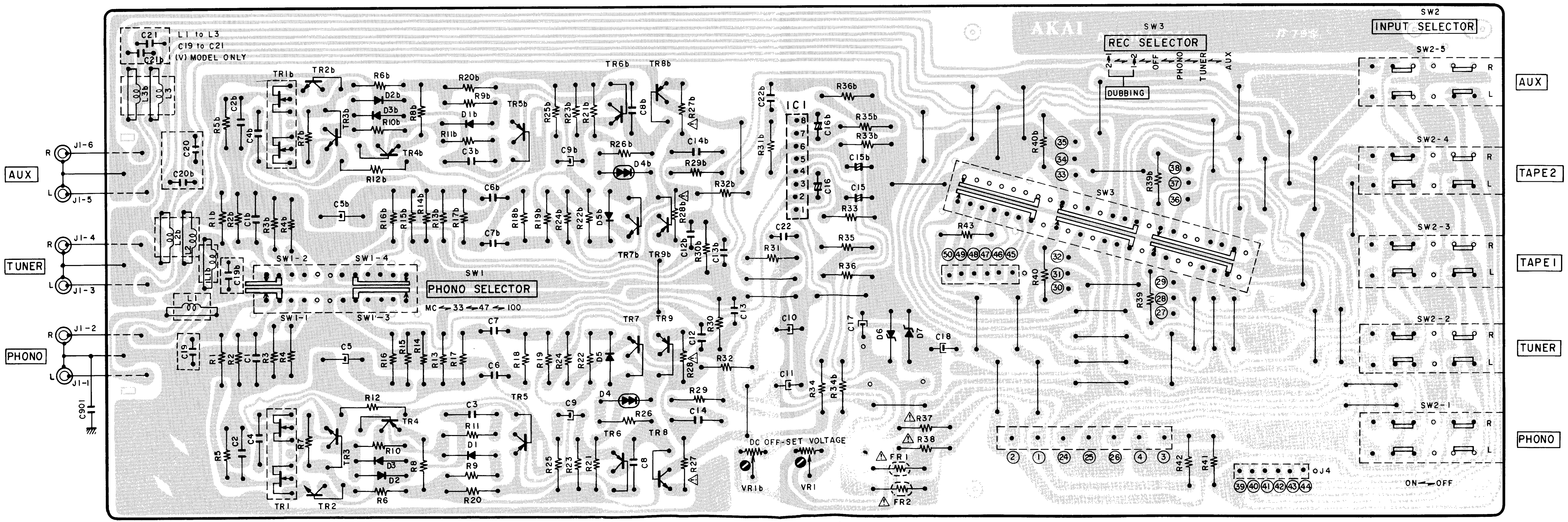


2SC2240
2SA974
2SA984K


D1
G1
S1
Sub
S2
G2
D2

2SK270

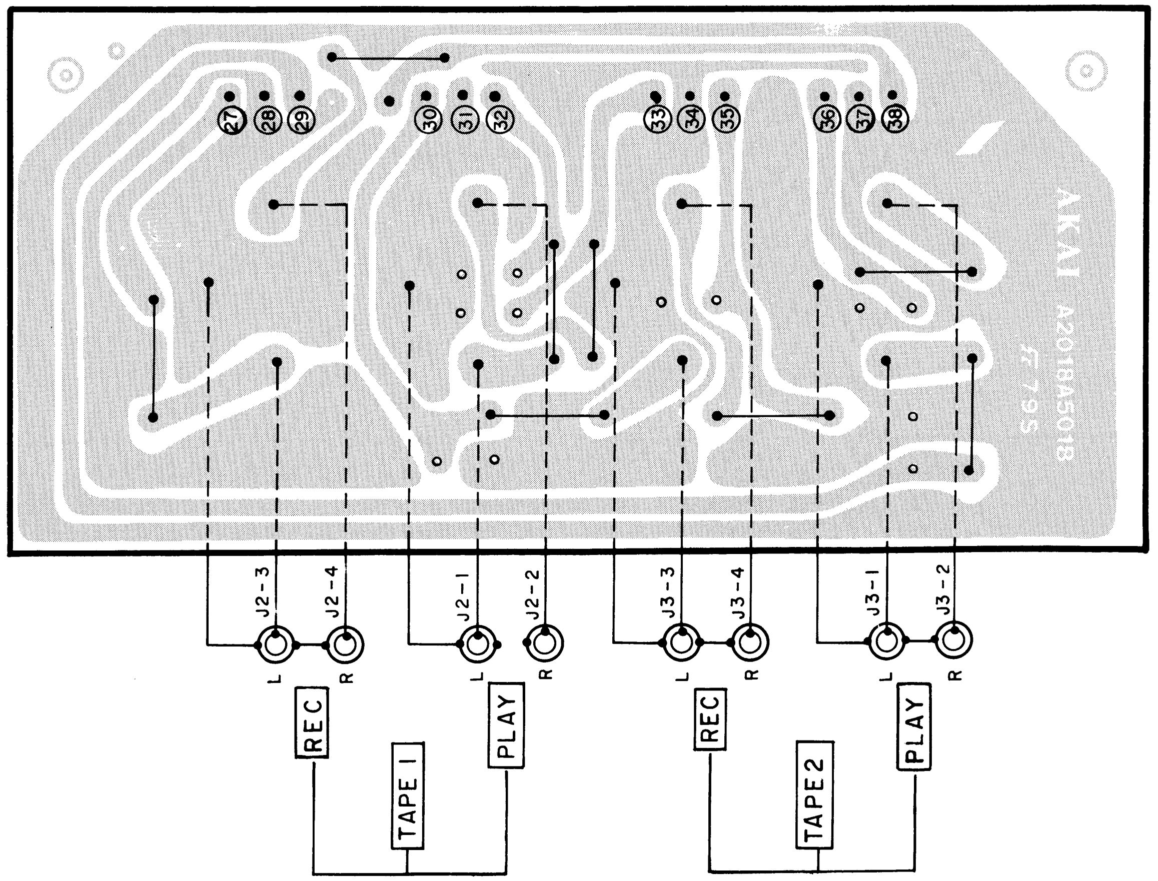
4) Model AM-U61 EQUALIZER P.C Board A2018A501A


L1 to L3
C19 to C21
(V) MODEL ONLY
AUX
TUNER
PHONO
J1-6
J1-5
J1-4
J1-3
J1-2
J1-1
C901
SW1-2
SW1-4
SW1-1
SW1-3
SW1
PHONO SELECTOR
MC ← 33 ← 47 ← 100
IC1
AKAI
SW3
REC SELECTOR
DUBBING
OFF
PHONO
TUNER
AUX
SW2
INPUT SELECTOR
SW2-5
SW2-4
SW2-3
SW2-2
SW2-1
AUX
TAPE2
TAPE1
TUNER
PHONO
ON ← OFF
J4
DC OFF-SET VOLTAGE
VR1b
VR1
FR1
FR2

EQUALIZER PCB A2018A501A

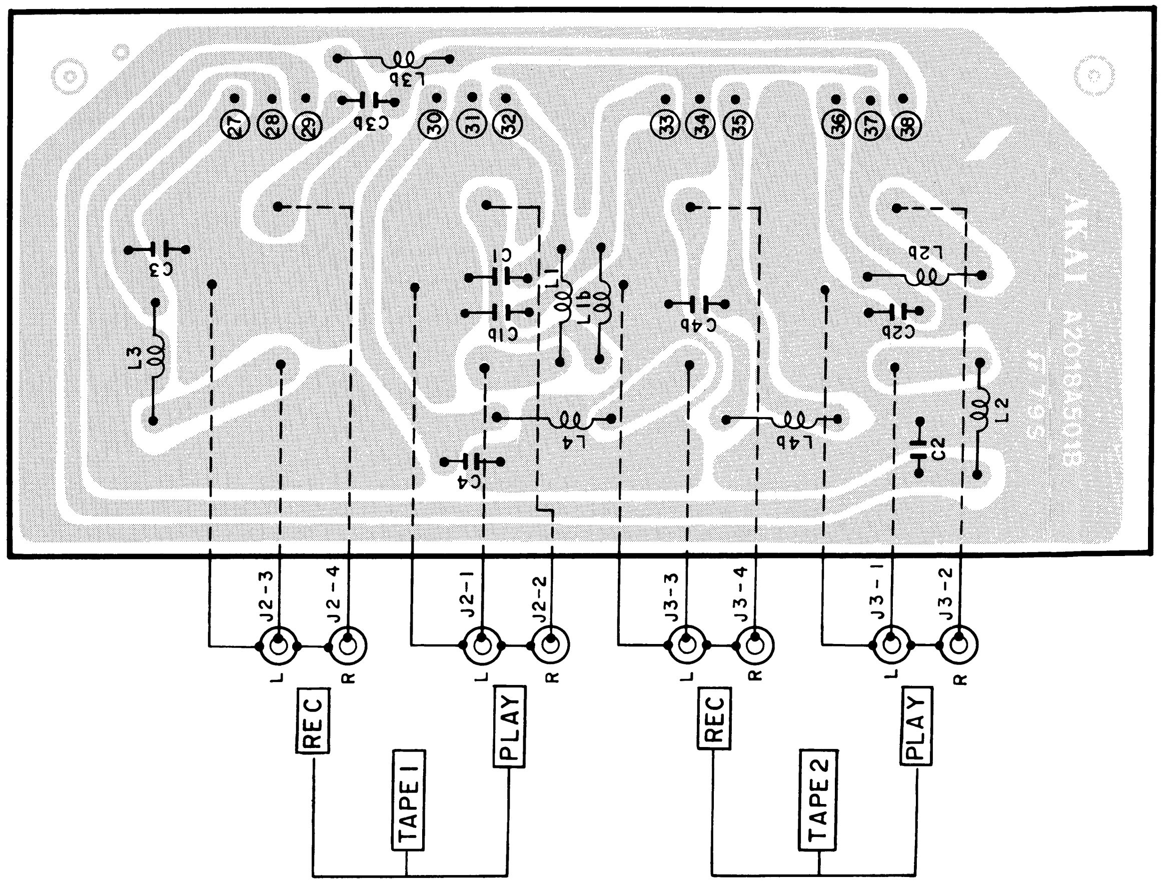
5) Model AM-U41/AM-U61 PIN JACK P.C Board A2018A501B (Except V)

PIN JACK PCB A2018A501B

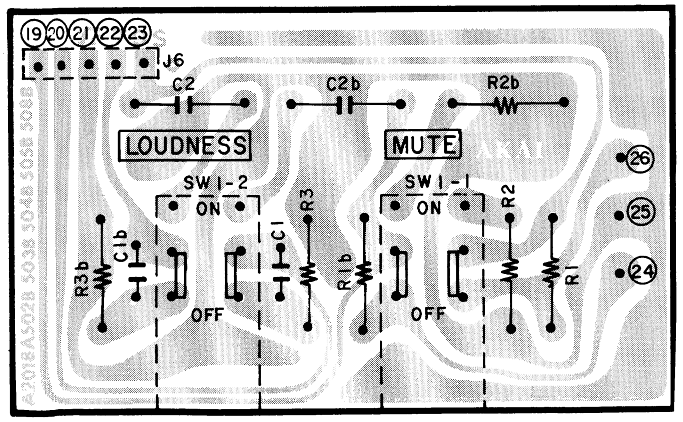

27
28
29
30
31
32
33
34
35
36
37
38
AKAI
A2018A501B
795
J2-3
J2-4
J2-1
J2-2
J3-3
J3-4
J3-1
J3-2
L
R
REC
PLAY
TAPE 1
TAPE 2

6) Model AM-U41/AM-U61 PIN JACK P.C Board A2018A501B (V only)

PIN JACK PCB (V) A2018A501B


L3b
C3b
27
28
29
30
31
32
33
34
35
36
37
38
C3
L3
C1
C1b
L1
L1b
C4
L4
C4b
L4b
L2b
C2b
C2
L2
AKAI
A2018A501B
795
J2-3
J2-4
J2-1
J2-2
J3-3
J3-4
J3-1
J3-2
L
R
REC
PLAY
TAPE 1
TAPE 2

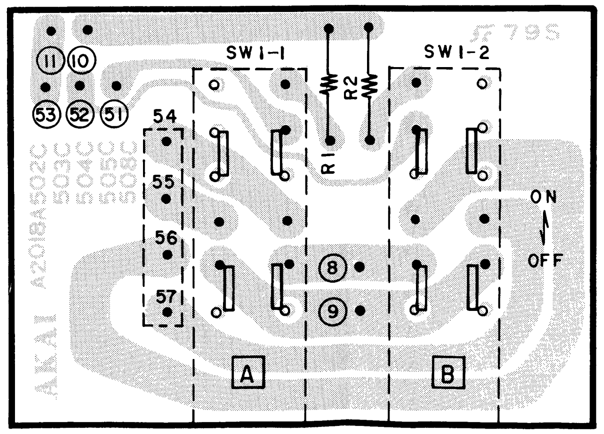
7) Model AM-U41/AM-U61 MUTE P.C Board A2018A503B (U), A2018A502B (J), A2018A504B (C/A), A2018A505B (E/V/B/S)


19
20
21
22
23
J6
C2
C2b
R2b
LOUDNESS
MUTE
AKAI
SW1-2
ON
OFF
SW1-1
ON
OFF
R3b
C1b
C1
R3
R1b
R2
R1
26
25
24

MUTE PCB (U) A2018A503B
(J) A2018A502B
(C,A) A2018A504B
(E,V,B,S) A2018A505B

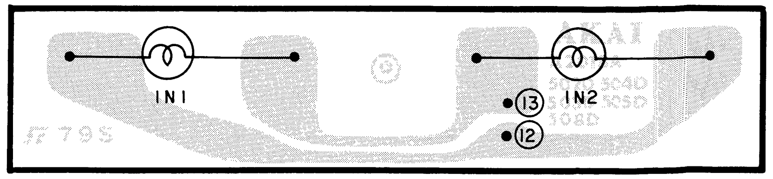
8) Model AM-U41/AM-U61 SPEAKER SW P.C Board A2018A503C (U), A2018A502C (J), A2018A504C (C/A), A2018A505C (E/V/B/S)

SPEAKER SELECTOR


11
10
53
52
51
54
55
56
57
SW1-1
SW1-2
R2
R1
8
9
ON
OFF
A
B
AKAI
795

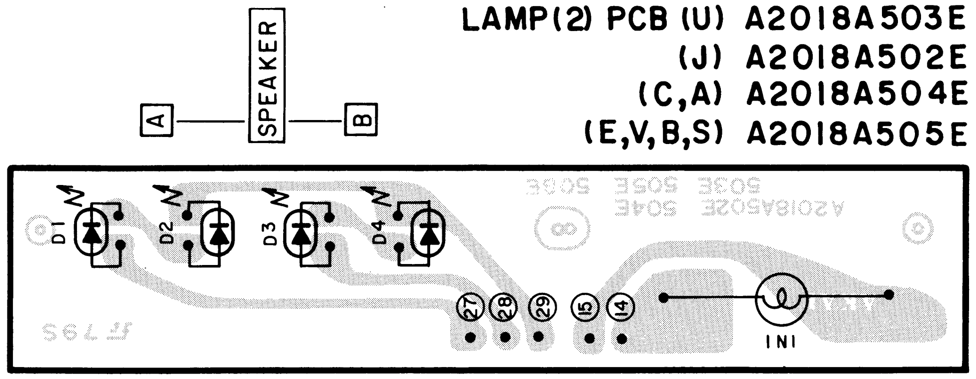
SPEAKER SW PCB (U) A2018A503C
(J) A2018A502C
(C,A) A2018A504C
(E,V,B,S) A2018A505C

9) Model AM-U41/AM-U61 LAMP (1) P.C Board A2018A503 D (U), A2018A502D (J), A2018A504D (C/A), A2018A505D (E/V /B/S)

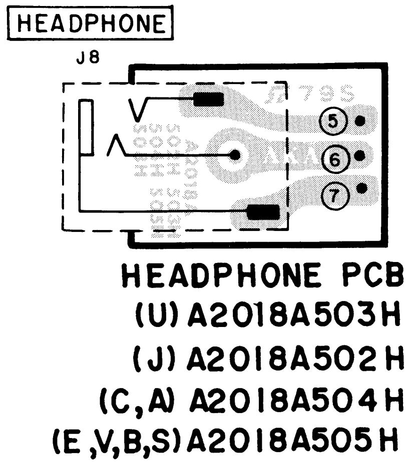

IN1
IN2
13
12
AKAI
795

LAMP(1) PCB (U) A2018A503D
(J) A2018A502D
(C,A) A2018A504D
(E,V,B,S) A2018A505D

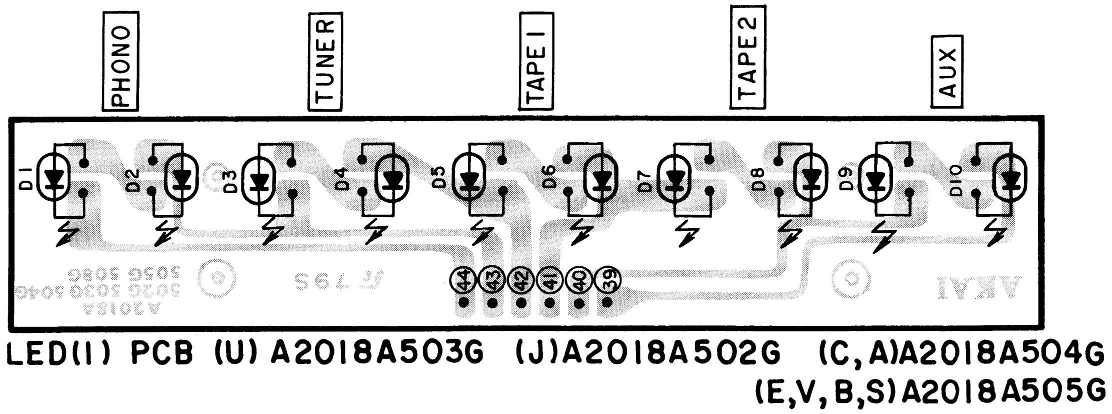
10) Model AM-U41/AM-U61 LAMP (2) P.C Board A2018A503E (U), A2018A502E (J), A2018A504E (C/A), A2018A505E (E/V/B/S)


LAMP(2) PCB (U) A2018A503E
(J) A2018A502E
(C,A) A2018A504E
(E,V,B,S) A2018A505E
SPEAKER
A
B
D1
D2
D3
D4
27
28
29
15
14
IN1

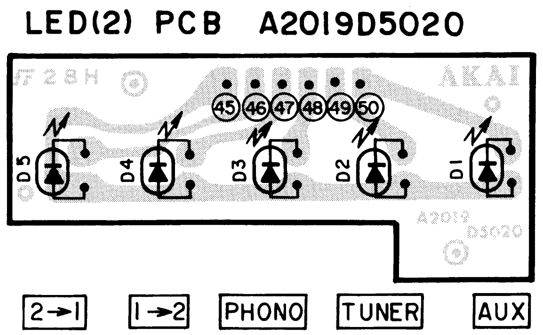
11) Model AM-U41/AM-U61 HEAD PHONE P.C Board A2018A503H (U), A2018A502H (J), A2018A504H (C/A), A2018A505H (E/V/B/S)


HEADPHONE
J8
5
6
7
HEADPHONE PCB
(U) A2018A503H
(J) A2018A502H
(C,A) A2018A504H
(E,V,B,S) A2018A505H

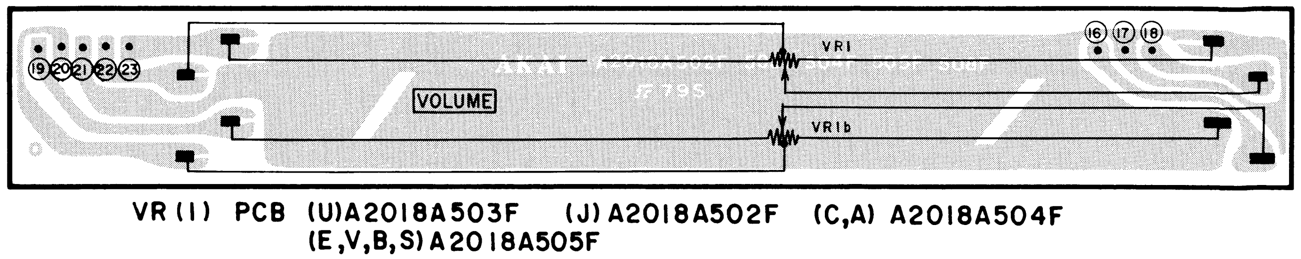
12) Model AM-U41/AM-U61 LED (1) P.C Board A2018A503G (U), A2018A502G (J), A2018A504G (C/A), A2018A505G (E/V/B/S)


PHONO
TUNER
TAPE 1
TAPE 2
AUX
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
44
43
42
41
40
39
LED(1) PCB (U) A2018A503G (J)A2018A502G (C,A)A2018A504G
(E,V,B,S)A2018A505G

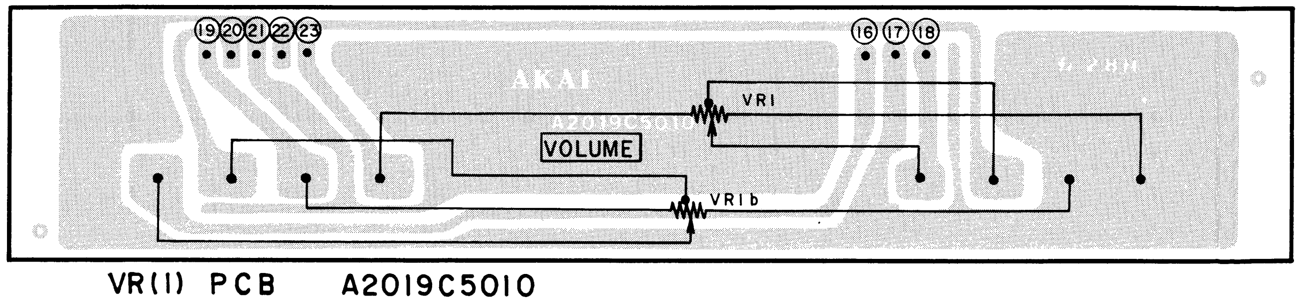
13) Model AM-U61 LED (2) P.C Board A2019D5020


LED(2) PCB A2019D5020
45
46
47
48
49
50
D5
D4
D3
D2
D1
2→1
1→2
PHONO
TUNER
AUX

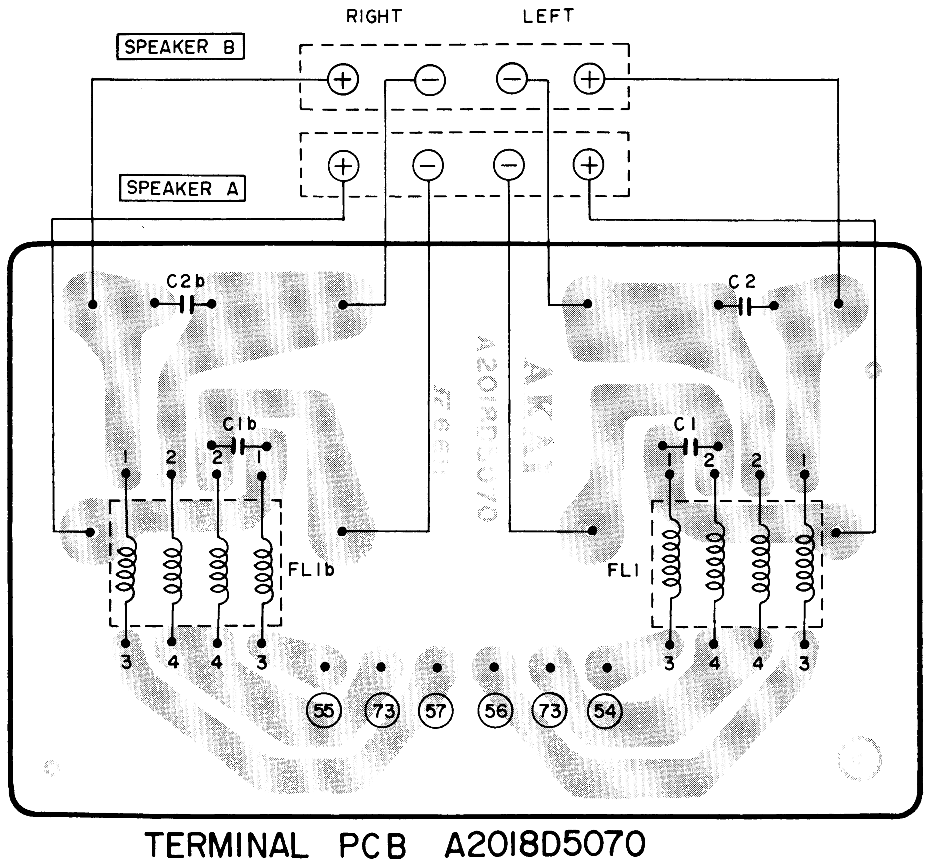
14) Model AM-U41 VR (1) P.C Board A2018A503F (U), A2018A502F (J), A2018A504F (C/A), A2018A505F (E/V/B/S)


19
20
21
22
23
16
17
18
VOLUME
VR1
VR1b
VR(1) PCB (U)A2018A503F (J) A2018A502F (C,A) A2018A504F
(E,V,B,S) A2018A505F

15) Model AM-U61 VR (1) P.C Board A2019C5010

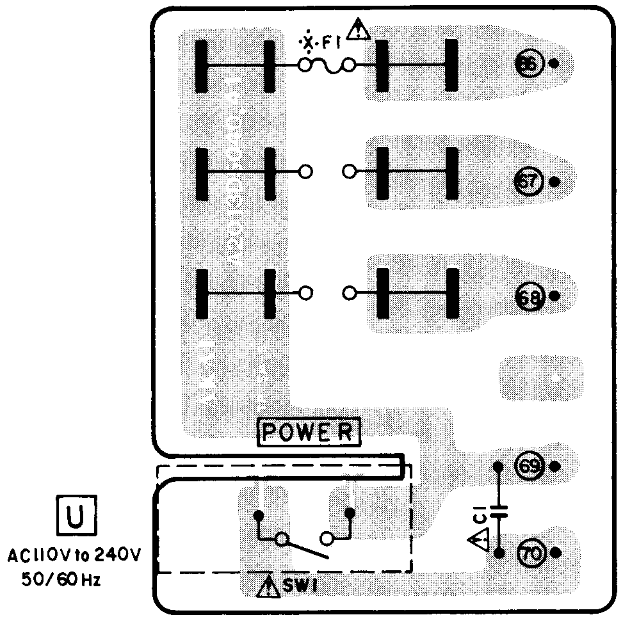

19
20
21
22
23
16
17
18
VOLUME
VR1
VR1b
VR(1) PCB A2019C5010

16) Model AM-U41/AM-U61 TERMINAL P.C Board A2018A5070


RIGHT
LEFT
SPEAKER B
SPEAKER A
C2b
C2
C1b
C1
FL1b
FL1
55
73
57
56
73
54
TERMINAL PCB A2018D5070

17) Model AM-U41/AM-U61 POWER P.C Board A2013D5042/A2013D5043 (U)

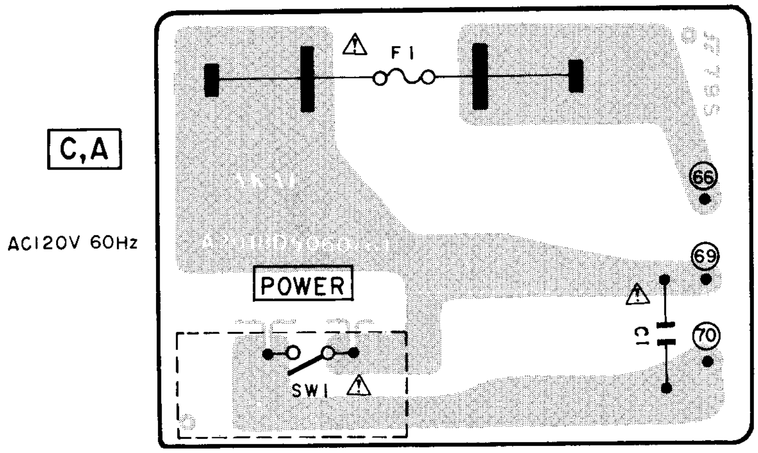
POWER PCB A2013D5042(AM-U41)
A2013D5043(AM-U61)


※·F1 ⚠
(66)
(67)
(68)
POWER
(69)
C1 ⚠
(70)
⚠SW1
U
AC110V to 240V
50/60Hz

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

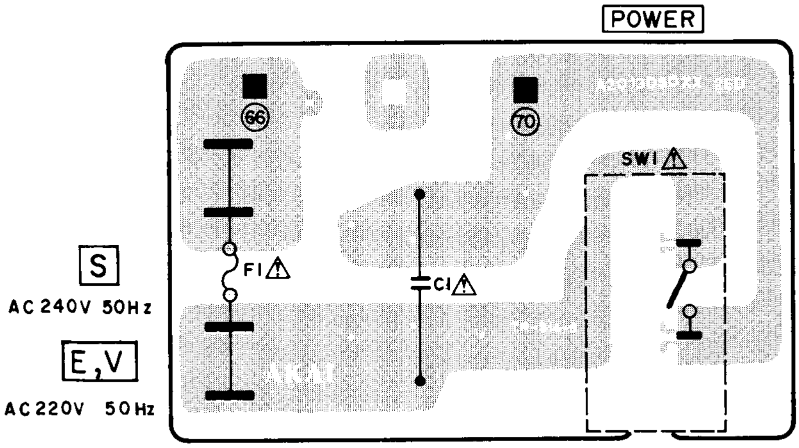
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

18) Model AM-U41/ R P.C Board A2018D5060/A2018D5061 (C/A)


⚠ F1
C,A
AC120V 60Hz
(66)
(69)
POWER
⚠
C1
(70)
SW1 ⚠

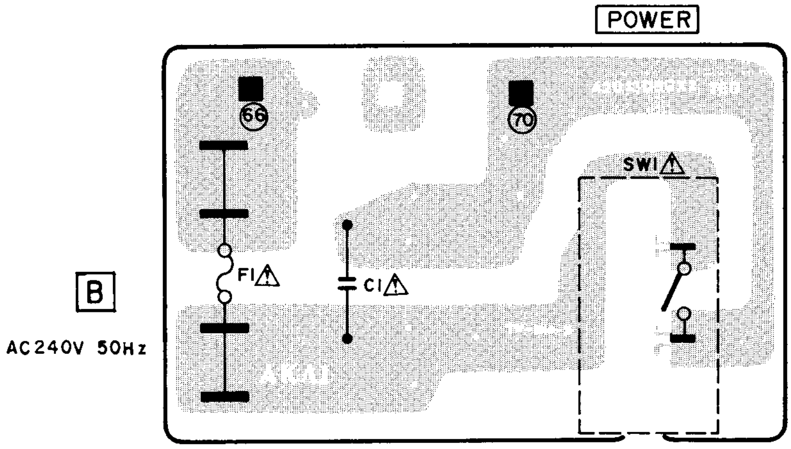
POWER PCB A2018D5060(AM-U41)
A2018D5061 (AM-U61)

19) Model AM-U41/AM-U61 POWER P.C Board A2013D5072/A2013D5073 (E/V/S)


POWER
66
70
SW1⚠
F1⚠
C1⚠
S
AC 240V 50Hz
E,V
AC 220V 50Hz

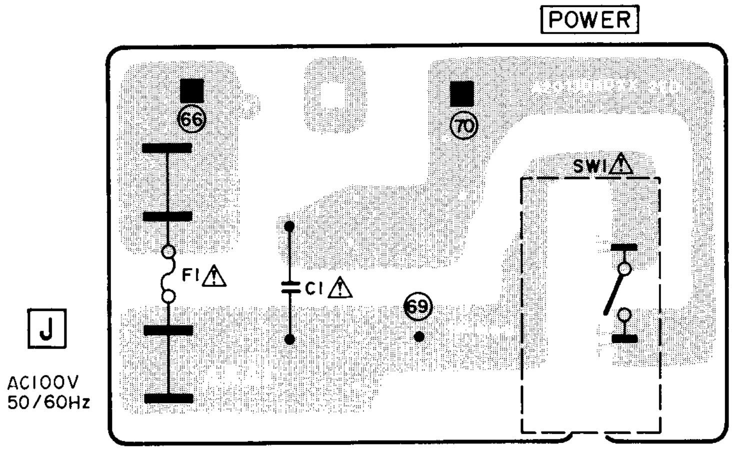
POWER PCB A2013D5072(AM-U41)
A2013D5073(AM-U61)

20) Model AM-U41/AM-U61 POWER P.C Board A2013D5072/A2013D5073 (B)


POWER
66
70
SW1⚠
F1⚠
C1⚠
B
AC 240V 50Hz

POWER PCB A2013D5072(AM-U41)
A2013D5073(AM-U61)

21) Model AM-U41/AM-U61 POWER P.C Board A2013D5082/A2013D5083 (J)


POWER
66
70
69
SW1⚠
F1⚠
C1⚠
J
AC100V
50/60Hz

POWER PCB A2013D5082(AM-U41)
A2013D5083(AM-U61)

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

MEMO

MEMO

MEMO

MEMO

SECTION 3

PARTS LIST

TABLE OF CONTENTS

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2. POWER P.C BOARD BLOCK 51
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4. ASSEMBLY BLOCK 53
5. FINAL ASSEMBLY BLOCK 54

RECOMMENDED SPARE PARTS LIST (AM-U41) 55
1. MAIN AMP P.C BOARD BLOCK 56
2. EQUALIZER P.C BOARD BLOCK 57
3. POWER P.C BOARD BLOCK 57
4. ASSEMBLY BLOCK 59
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RECOMMENDED SPARE PARTS LIST (AM-U61) 61
1. MAIN AMP P.C BOARD BLOCK 62
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3. POWER P.C BOARD BLOCK 63
4. ASSEMBLY BLOCK 65
5. FINAL ASSEMBLY BLOCK 66

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Please refer to COMMON LIST FOR SERVICE PARTS for Resistor and Capacitor not listed in this parts list.

ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
4. How to read list
   a) Mechanism Block
   b) P.C Board Block

2. HEAD BASE BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	CS ANGLE ADJUST SPRING

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-IC3	EI-331661	IC SN7405N
6-IC4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X1	EI-318384	OSC X'TAL NC-18C 3.579545MHZ

SP (Service Parts) Classification

This reference numbers corresponds with symbol numbers of Schematic Diagrams.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

I. MODEL AT-S61/L/J

RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION
1	BT-337978	⚠ TRANS POWER AT-S61T-11 (J)
2	BT-337971	⚠ TRANS POWER AT-S61T-30 (C, A)
3	BT-337973	⚠ TRANS POWER AT-S61T-40 (B) (E, V)
4	BT-337974	⚠ TRANS POWER AT-S61-T-50 (B) (B, S)
5	BT-337970	⚠ TRANS POWER AT-S61T-70 (U)
6	EC-336865	C S-FIX H CTZ51C 3.0-10 (EXCEPT L)
7	EC-337602	C S-FIX H CTZ51E127 4.5-20
8	EC-337603	C S-FIX H CTZ51F132 5.5-30
9	ED-562386	D GERMA H 1S188AM
10	ED-337413	D LED SLP-135B RED
11	ED-337414	D LED SLP-235B GRN
12	ED-223547	D SILICON DS131A 100/1.8A
13	ED336805	D SILICON DS135D-KB1 200/1.0A
14	ED301911	D SILICON H DS448
15	ED-200469	D SILICON H DS448 FA5 F10
16	ED-322238	D SILICON 1B4B41 100/1.0A
17	ED-337605	D VARACTOR SVC333(A) DOUBLE
18	ED323057	D VARISTER MV12
19	ED-323216	D ZENER H 05Z15 Z
20	ED337606	D ZENER H 05Z6.2 Y
21	ED-300257	D ZENER H 05Z6.8 X
22	EE-337571	FRONT END FD632J16 76-90MHz (J)
23	EE-337570	FRONT END FD632U14 87-108MHz (EXCEPT J)
24	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F3) (E, B, S, V)
25	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F5) (E, B, S, V)
26	EF-300588	⚠ FUSE EAWK T 250V 0.20A (F4) (E, B, S, V)
27	EF-300599	⚠ FUSE FST3100 T 250V 0.40A (F1, 2) (E, B, S, V)
28	EF-308933	⚠ FUSE TSC A 250V 0.20A (F1) (U)
29	EF-309389	⚠ FUSE TSC A 250V 0.40A (F1) (U)
30	EF-327103	⚠ FUSE TSC A 250V 0.50A (F1) (J)
31	EF-315334	⚠ FUSE TSC 125V 0.25A (F5) (C, A)
32	EF-306088	⚠ FUSE TSC 125V 0.31A (F4) (C, A)
33	EF-309390	⚠ FUSE TSC 125V 0.50A (F1, 2, 3) (C, A)
34	EI-337600	IC AT600
35	EI-337363	IC LA1222
36	EI-337417	IC LA1235
37	EI-202218	IC LA1245
38	EI-332206	IC LA3381
39	EI-336761	IC LA6458S
40	EI-336794	IC LB1240
41	EI-337365	IC LB1426
42	EI-338171	IC LC4069UB
43	EI-332287	IC M54517P
44	EI-315379	IC TC5066BP
45	EI-336717	IC TC9125BP
46	EI-315381	IC TD6102P
47	EI-338675	IC UPC78M24H
48	EI-327074	OSC X'TAL HC-18/U 9MHz
49	EL-337975	PL CORD 9.0V 40MA 140/140
50	EM-337426	IND FL 9-BT-01ZK CHARACTER
51	EO-336878	COIL DET 2 78-1049
52	EO-336879	COIL DET 2 78-1050
53	EO-337607	COIL IFT 08A-04 460KHz
54	EO-202216	COIL IFT 7MC-6733C 460KHz
55	EO-336833	COIL IFT 7MC-7736Z 460KHz
56	EO-202215	COIL OSC 2 7NR6721Y 100μH
57	EO-307786	COIL OSC 2 7NR-6722Y 580μH (L)
58	EO-337415	COIL VARI 1 126xGS-6323Z 19KHz
59	EO-337572	COIL VARI 2 25-2474 (V)
60	EO-337573	COIL VARI 2 25-2475 (V)
61	EO-337574	COIL VARI 2 25-2476 (V)
62	EO-337598	COIL VARI 2 25A-1353-01
63	EO-337599	COIL VARI 2 25A-1354-03 (L)
64	ER-338408	⚠ R FUSE ERD2FC F10 1/4W 91R0G (V)
65	ER-318248	⚠ R FUSE ERD2FC 1/4W 47R0G
66	ER-337327	FILTER CE BFU459C4N 0.459MHz (EXCEPT C, A)
67	ER-337328	FILTER CE BFU460C4N 0.46MHz (C, A)
68	ER-337989	FILTER CE SFE10.7MPKA 10.7MHz
69	ER-337325	FILTER CE SFZ459G3L 0.459MHz (EXCEPT C, A)
70	ER-337326	FILTER CE SFZ460G3L 0.46MHz (C, A)
71	ER-341654	FILTER LC LP 42W-1001
72	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (C, A)
73	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
74	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S)
75	ES-336760	SW TACT EVQ-QJR02K
76	ES-328414	SW TACT KHC10901
77	ET-323232	TR FET 2SK19 Y
78	ET-336864	TR FET 2SK223 F
79	ET-337604	TR FET 2SK246 Y
80	ET-322778	TR 2SA608K-NP E, F, G
81	ET-316643	TR 2SC536K-NP F, G
82	ET-307193	TR 2SD612K D, E, F
83	EV-337995	R S-FIX H RVF8P01 3P 103
84	EV-337996	R S-FIX H RVF8P01 3P 104
85	EV-337993	R S-FIX H RVF8P01 3P 203
86	EV-338588	R S-FIX H RVF8P01 3P 503

1. TUNER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BA-A3027A030A	PC TUNER BLK AT-S61 (U)
1-2	BA-A3027A030B	PC TUNER BLK AT-S61 (C) (C, A)
1-3	BA-A3027A030C	PC TUNER BLK AT-S61 (E) (E, S)
1-4	BA-A3027A030D	PC TUNER BLK AT-S61 (V)
1-5	BA-A3027A030E	PC TUNER BLK AT-S61L
1-6	BA-A3027A030F	PC TUNER BLK AT-S61-J
	TUNER P.C BOARD BLOCK	
1-7	EE-337570	FRONT END FD632U14 87-108MHz (EXCEPT J)
1-8	EE-337571	FRONT END FD632J16 76-90MHz (J)
1-IC1	EI-337363	IC LA1222
1-IC2	EI-337417	IC LA1235
1-IC3	EI-336761	IC LA6458S (V)
1-IC4	EI-336761	IC LA6458S
1-IC5	EI-332206	IC LA3381
1-IC6	EI-202218	IC LA1245
1-IC7	EI-315381	IC TD6102P
1-IC8	EI-336717	IC TC9125BP
1-IC9	EI-337600	IC AT600
1-IC10	EI-338171	IC LC4069UB
1-IC11	EI-332287	IC M54517P
1-IC12	EI-315379	IC TC5066BP
1-IC13	EI-336794	IC LB1240
1-IC14	EI-337365	IC LB1426
1-IC15	EI-338675	⚠ IC UPC78M24H
1-TR1	ET-322778	TR 2SA608K-NP E, F, G
1-TR2 to 5	ET-316643	TR 2SC536K-NP F, G
1-TR6	ET-322778	TR 2SA608K-NP E, F, G
1-TR7	ET-337604	TR FET 2SK246 Y
1-TR8	ET-337604	TR FET 2SK246 Y
1-TR9 to 13	ET-316643	TR 2SC536K-NP F, G
1-TR14 to 16	ET-337604	TR FET 2SK246 Y
1-TR17	ET-322778	TR 2SA608K-NP E, F, G
1-TR18	ET-316643	TR 2SC536K-NP F, G (L)
1-TR19 to 22	ET-322778	TR 2SA608K-NP E, F, G (L)
1-TR23	ET-316643	TR 2SC536K-NP F, G (L)
1-TR24	ET-323232	TR FET 2SK19 Y (L)
1-TR26	ET-316643	TR 2SC536K-NP F, G (L)
1-TR27	ET-316643	TR 2SC536K-NP F, G
1-TR28	ET-336864	TR FET 2SK223 F (L)
1-TR29	ET-336864	TR FET 2SK223 F
1-TR30	ET-322778	TR 2SA608K-NP E, F, G
1-TR31	ET-316643	TR 2SC536K-NP F, G
1-TR32 to 35	ET-316643	TR 2SC536K-NP F, G (L)
1-TR36 to 44	ET-316643	TR 2SC536K-NP F, G
1-TR45	ET-322778	TR 2SA608K-NP E, F, G
1-TR46	ET-322778	TR 2SA608K-NP E, F, G (L)
1-TR47	ET-322778	TR 2SA608K-NP E, F, G
1-TR48	ET-316643	TR 2SC536K-NP F, G
1-TR49	ET-307193	⚠ TR 2SD612K D, E, F
1-TR50	ET-322778	TR 2SA608K-NP E, F, G
1-TR51, 52	ET-316643	TR 2SC536K-NP F, G
1-TR53	ET-307193	⚠ TR 2SD612K D, E, F
1-D1 to 3	ED301911	D SILICON H DS448
1-D4	ED-200469	D SILICON H DS448 FA5 F10 (L)
1-D5, 6	ED-562386	D GERMA H 1S188AM
1-D7 to 9	ED-301911	D SILICON H DS448
1-D10, 11	ED-337605	D VARACTOR SVC333 (A) DOUBLE
1-D12	ED-323057	D VARISTER MV12
1-D13, 14	ED-301911	D SILICON H DS448
1-D15	ED-200469	D SILICON H DS448 FA5 F10
1-D16	ED-200469	D SILICON H DS448 FA5 F10 (L)
1-D17	ED-301911	D SILICON H DS448
1-D18	ED-200469	D SILICON H DS448 FA5 F10
1-D19 to 21	ED-301911	D SILICON H DS448
1-D22, 23	ED-200469	D SILICON H DS448 FA5 F10 (L)
1-D24	ED-200469	D SILICON H DS448 FA5 F10 (J)
1-D25, 26	ED-200469	D SILICON H DS448 FA5 F10 (C, A)
1-D27	ED-200469	D SILICON H DS448 FA5 F10 (V)
1-D28	ED-200469	D SILICON H DS448 FA5 F10
1-D29, 30	ED-200469	D SILICON H DS448 FA5 F10 (V)

REF. NO.	PARTS NO.	DESCRIPTION
1-D31, 32	ED-301911	⚠ D SILICON H DS448
1-D33, 34	ED-323216	⚠ D ZENER H 05Z15 Z
1-D35	ED-223547	⚠ D SILICON DS131A 100/1.8A
1-D36	ED-200469	D SILICON H DS448 FA5 F10
1-D37 to 39	ED-301911	D SILICON H DS448
1-D40	ED-323057	D VARISTER MV12
1-D41	ED-336805	⚠ D SILICON DS135D-KB1 200/1.0A
1-D42	ED-322238	⚠ D SILICON 1B4B41 100/1.0A
1-D43	ED-300257	D ZENER H 05Z6.8 X
1-D44	ED-337606	D ZENER H 05Z6.2 Y
1-D45	ED-323216	D ZENER H 05Z15 Z
1-J1	EJ-337424	PIN J AJC-034-AAB P 2P
1-J2	EJ-324276	DIN J TCS4680-01-111 P 8P
1-SW1	ES-328414	SW TACT KHC10901
1-VR1	EV-338588	R S-FIX H RVF8P01 3P 503
1-VR2	EV-337993	R S-FIX H RVF8P01 3P 203
1-VR3	EV-337995	R S-FIX H RVF8P01 3P 103 (J)
1-VR4 to 6	EV-337993	R S-FIX H RVF8P01 3P 203
1-VR7	EV-337995	R S-FIX H RVF8P01 3P 103
1-VR8	EV-337996	R S-FIX H RVF8P01 3P 104
1-L1	EO-337608	COIL FIX 1 LAL04 2.2μH M
1-L2, 3	EO-318365	COIL FIX 1 LAL04 1MH K
1-L4	EO-318380	COIL FIX 1 LAL04 270μH K
1-L5	EO-336934	COIL FIX 1 LAL03KH 2.2μH M
1-T1	EO-336878	COIL DET 2 78-1049
1-T2	EO-336879	COIL DET 2 78-1050
1-T3	EO-337572	COIL VARI 2 25-2474 (V)
1-T4	EO-337573	COIL VARI 2 25-2475 (V)
1-T5	EO-337574	COIL VARI 2 25-2476 (V)
1-T6, 7	EO-337415	COIL VARI 1 126×GS-6323Z 19KHz
1-T8	EO-337598	COIL VARI 2 25A-1353-01
1-T9	EO-337599	COIL VARI 2 25A-1354-03 (L)
1-T10	EO-202215	COIL OSC 2 7NR-6721Y 100μH
1-T11	EO-307786	COIL OSC 2 7NR-6722Y 580μH (L)
1-T12	EO-337607	COIL IFT 08A-04 460KHz
1-T13	EO-202216	COIL IFT 7MC-6733C 460KHz
1-T14	EO-336833	COIL IFT 7MC-7736Z 460KHz
1-FL1 to 3	ER-337989	FILTER CE SFE10.7MPKA 10.7MHz
1-FL4	ER-341654	FILTER LC LP 42W-1001
1-FL5	ER-337325	FILTER CE SFZ459G3L 0.459MHz (EXCEPT C, A)
1-FL5	ER-337326	FILTER CE SFZ460G3L 0.46MHz (C, A)
1-FL6	ER-337327	FILTER CE BFU459C4N 0.459MHz (EXCEPT C, A)
1-FL6	ER-337328	FILTER CE BFU460C4N 0.46MHz (C, A)
1-X1	EI-327074	OSC X'TAL HC-18/U 9MHz
1-FR1	ER-318248	⚠ R FUSE ERD2FC 1/4W 47R0G (EXCEPT V)
1-FR1	ER-338408	⚠ R FUSE ERD2FC F10 1/4W 91R0G (V)
1-FR2	ER-318248	⚠ R FUSE ERD2FC 1/4W 47R0G
1-R5	ER-324480	⚠ R CB H SNP FS RDS 1/4W 470J
1-R7	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-R24	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-R38	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-R55	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J (V)
1-R62	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-R118	ER-324185	⚠ R CB H SNP FS RDS 1/4W 221J (EXCEPT L)
1-R118	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J (L)
1-R124	ER-324184	⚠ R CB H SNP FS RDS 1/4W 121J
1-R129	ER-322787	⚠ R CB H SNP FS RDS 1/4W 100J
1-R204	ER-324186	⚠ R CB H SNP FS RDS 1/4W 681J
1-R222	ER-324186	R CB H SNP FS RDS 1/4W 681J
1-C42	EC-330309	C STY F05 CQ09S 511J 50DC (EXCEPT C, A)
1-C42	EC-323252	C STY V CQ09S 771J 50DC (C, A)

REF. NO.	PARTS NO.	DESCRIPTION
1-C43	EC-330309	C STY F05 CQ09S 511J 50DC (EXCEPT C, A)
1-C43	EC-323252	C STY V CQ09S 771J 50DC (C, A)
1-C64	EC-300448	C STY V F05 CQ09S 4900G 50DC (EXCEPT L)
1-C64	EC-338585	C STY V SNP CQFS 4700G 50DC (L)
1-C65	EC-334065	C STY V F05 CQ09S 161J 50DC (L)
1-C106	EC-337581	C EC 224 5DC
1-C119, 120	EC-320548	C CE V F 103Z 250AC
1-VC1	EC-336865	C S-FIX H CTZ51C 3.0-10 (EXCEPT L)
1-VC1	EC-337603	C S-FIX H CTZ51F132 5.5-30 (L)
1-VC2	EC-337602	C S-FIX H CTZ51E127 4.5-20 (L)
1-VC3	EC-337603	C S-FIX H CTZ51F132 5.5-30
1-TM1	EJ-341367	TERMINAL W/SCREW T5827 P 3P (U)
1-TM1	EJ-337595	TERMINAL W/SCREW T5820 P 2P (C, A, J)
1-TM1	EJ-337596	TERMINAL W/SCREW T5819 P 2P (E, B, S)
1-TM1	EJ-337597	TERMINAL W/SCREW T5818 P 2P (V)
	OPERATION P.C BOARD BLOCK	
1-IN1	EM-337426	IND FL 9-BT-01ZK CHARACTER
1-D1 to 3	ED-337414	D LED SLP-235B GRN
1-D4 to 6	ED-301911	D SILICON H DS448
1-D7 to 13	ED-337414	D LED SLP-235B GRN
1-D14	ED-337413	D LED SLP-135B RED
1-SW1 to 20	ES-336760	SW TACT EVQ-QJR02K

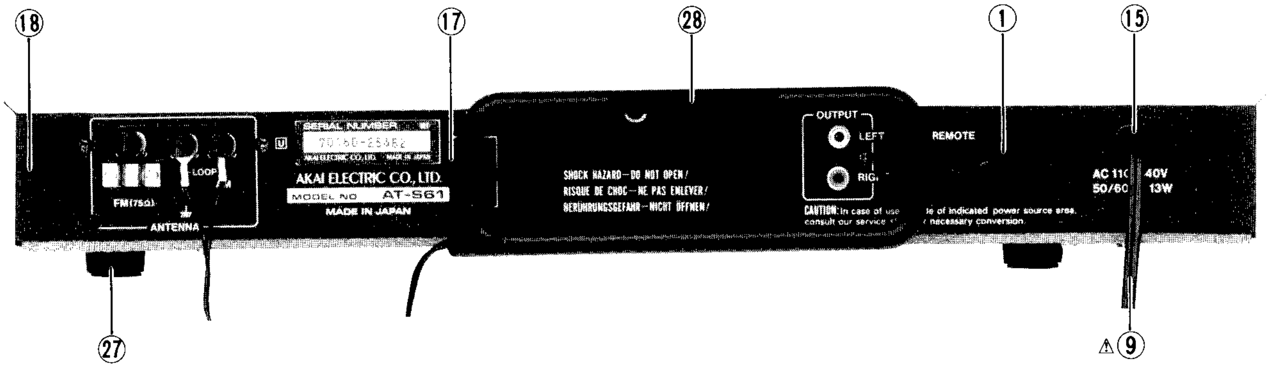
2. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-SW1	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S)
2-SW1	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (C, A)
2-SW1	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
2-C1	EC-320548	⚠ C CE V F 103Z 250AC (U, J)
2-C1	EC-314688	⚠ C CE V FZ 103P 125AC (C, A)
2-C1	EC-338496	⚠ C CE V FZ 472P 400AC (E, B, S)
2-C1	EC-338577	⚠ C CE V F 472M 400AC (E, B) (L)

3. FILTER P.C BOARD BLOCK (V ONLY)

REF. NO.	PARTS NO.	DESCRIPTION
	FILTER P.C BOARD BLOCK (V ONLY)	
3-FL1	EO-338409	⚠ COIL LF FKOB160MH02 250μH (V)
	POWER P.C BOARD BLOCK (V ONLY)	
3-SW1	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (V)
3-C1	EC-338496	⚠ C CE V FZ 472P 400AC (V)

ASSEMBLY BLOCK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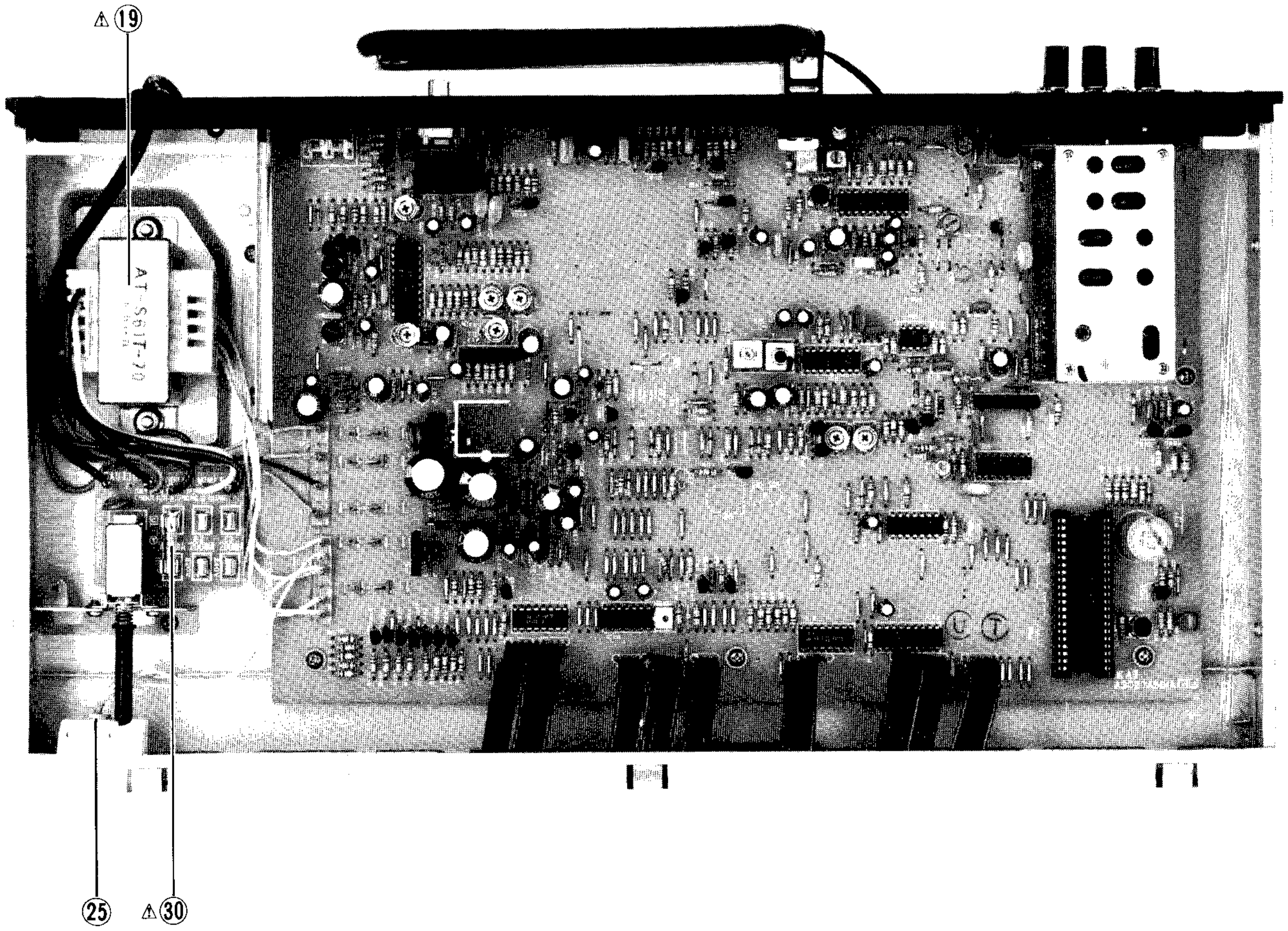
⑮
SERIAL NUMBER
AKAI ELECTRIC CO., LTD.
MODEL NO AT-S61
MADE IN JAPAN
FM (75Ω)
LOOP
ANTENNA
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
OUTPUT
LEFT
REMOTE
㉗
⚠⑨


⚠⑲
AT-S61T-70
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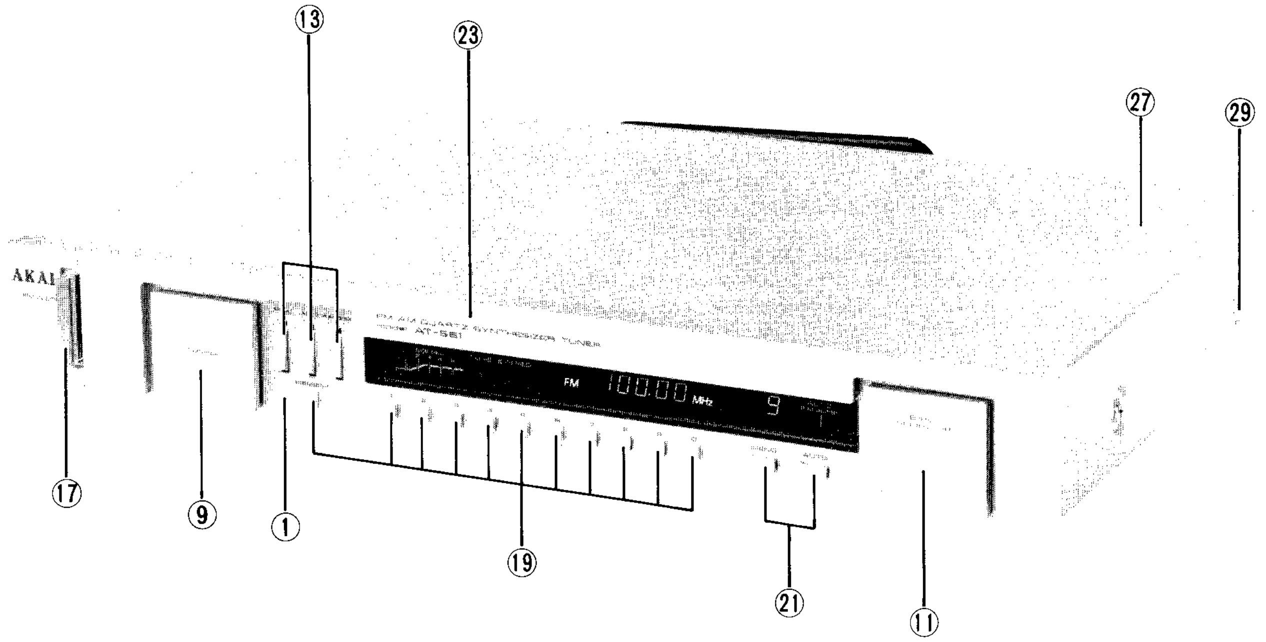
⚠㉚

4. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1	SP-332734A	PANEL REAR AT-S61(U)
4-2x	SP-332734B	PANEL REAR AT-S61(C)
4-3x	SP-332734C	PANEL REAR AT-S61 (A)
4-4x	SP-332734D	PANEL REAR AT-S61 (E, V)
4-5x	SP-332734E	PANEL REAR AT-S61 (S)
4-6x	SP-332734F	PANEL REAR AT-S61L (E)
4-7x	SP-332734G	PANEL REAR AT-S61L (B)
4-8x	SP-332734H	PANEL REAR AT-S61 (J)
4-9	EW-306428	⚠ AC CORD 2 CORES KP-205A, VFF J (U)
4-10x	EW-306427	⚠ AC CORD 2 CORES KP-211, VFF J (J)
4-11x	EW-305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC (C, A)
4-12x	EW-336923	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E, S)
4-13x	EW-336926	⚠ AC CORD GTBS-2F 24/0.20×2 B (B)
4-14x	EW-336924	⚠ AC CORD 2 CORES KP-560, LTSA-2F S (V)
4-15	SZ-631945	STRAIN RELIEF SR-4N-4 (EXCEPT B)
4-16x	EJ-692908	STRAIN RELIEF SR-5N-4 (B)
4-17	SZ-332739	HOLDER ANTENNA
4-18	ZS-319460	T2BR30×06STL BZN PROJECTION
4-19	BT-337970	⚠ TRANS POWER AT-S61T-70 (U)
4-20x	BT-337978	⚠ TRANS POWER AT-S61T-11 (J)
4-21x	BT-337971	⚠ TRANS POWER AT-S61T-30 (C, A)
4-22x	BT-337973	⚠ TRANS POWER AT-S61T-40 (B) (E, V)
4-23x	BT-337974	⚠ TRANS POWER AT-S61T-50 (B) (B, S)
4-24x	ZW-698308	RV NYL30×055 BL
4-25	EL-337975	PL CORD 9.0V 40MA 140/140 (IN901)
4-26x	SP-332738	COVER BOTTOM
4-27	SA-332850	ROUND FOOT
4-28	EE-337976	ANT LOOP LA-200A
4-29x	ZW-305013	RV POP32 (A)
4-30	EF-308933	⚠ FUSE TSC A 250V 0.20A (F1) (U)
4-31x	EF-309389	⚠ FUSE TSC A 250V 0.40A (F1) (U)
4-32x	EF-327103	⚠ FUSE TSC A 250V 0.50A (F1) (J)
4-33x	EF-309390	⚠ FUSE TSC 125V 0.50A (F1, 2, 3) (C, A)
4-34x	EF-306088	⚠ FUSE TSC 125V 0.31A (F4) (C, A)
4-35x	EF-315334	⚠ FUSE TSC 125V 0.25A (F5) (C, A)
4-36x	EF-300599	⚠ FUSE FST3100 T 250V 0.40A (F1, 2) (E, B, S, V)
4-37x	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F3) (E, B, S, V)
4-38x	EF-300588	⚠ FUSE EAWK T 250V 0.20A (F4) (E, B, S, V)
4-39x	EF-322975	⚠ FUSE EAWK T 250V 0.16A (F5) (E, B, S, V)

FINAL ASSEMBLY BLOCK



5. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	PANEL OPERATION BLOCK	
5-1	BD-A3027A020A	PANEL OPERATION BLK AT-S61 (AT-S61/L)
5-2x	BD-A3027A020B	PANEL OPERATION BLK AT-S61-P (AT-S61-P/LP)
5-3x	BD-A3027A020C	PANEL OPERATION BLK AT-S61-J
5-4x	BD-A3027A020D	PANEL OPERATION BLK AT-S61-JP
5-5x	SP-332743A	PANEL OPERATION (A) (AT-S61/L)
5-6x	SP-332743B	PANEL OPERATION (A)-P (AT-S61-P/LP)
5-7x	SP-332743C	PANEL OPERATION (B) (AT-S61J)
5-8x	SP-332743D	PANEL OPERATION (B)-P (AT-S61JP)
5-9	SK-332745A	KNOB TUNING
5-10x	SK-332745B	KNOB TUNING-P
5-11	SK-332747A	KNOB BAND
5-12x	SK-332747B	KNOB BAND-P
5-13	SK-332750A	KNOB PUSH (A)
5-14x	SK-332750B	KNOB PUSH (A)-P
5-15x	SE-342181	MASK LED
5-16x	SZ-332748	WIND FRONT

REF. NO.	PARTS NO.	DESCRIPTION
	FINAL ASSEMBLY BLOCK	
5-17	SK-332744	KNOB POWER
5-18x	ZG-313182	SP C-4.5/0.35-25.0 C-029
5-19	SK-342499A	KNOB PUSH (B-1)
5-20x	SK-342499B	KNOB PUSH (B-1)-P
5-21	SK-342499C	KNOB PUSH (B-2)
5-22x	SK-342499D	KNOB PUSH (B-2)-P
5-23	SP-332753A	PANEL FRONT AT-S61 (AT-S61/J)
5-24x	SP-332753B	PANEL FRONT AT-S61-P (AT-S61P/JP)
5-25x	SP-332753C	PANEL FRONT AT-S61L
5-26x	SP-332753D	PANEL FRONT AT-S61L-P
5-27	SP-332752A	COVER UPPER
5-28x	SP-332752B	COVER UPPER-P
5-29	ZS-322570	ST BID40×08STL NI3
5-30x	ZS-322580	ST BID40×08STL BNI

II. MODEL AM-U41

RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION
1	BT-341430	⚠ TRANS POWER AMU-41T-10 (J)
2	BT-341431	⚠ TRANS POWER AMU-41T-20 (A)
3	BT-341432	⚠ TRANS POWER AMU-41T-30 (C)
4	BT-341433	⚠ TRANS POWER AMU-41T-40 (E, V)
5	BT-341434	⚠ TRANS POWER AMU-41T-50 (B, S)
6	BT-341435	⚠ TRANS POWER AMU-41T-70 (U)
7	ED-337391	D LED GL-5NG6 GRN
8	ED-330320	D SILICON DBA10C 200/1.0A
9	ED-336805	D SILICON DS135D-KB1 200/1.0A
10	ED-337153	D SILICON H DS446FA5 F10
11	ED-200469	D SILICON H DS448 FA5 F10
12	ED-323057	D VARISTER MV12
13	ED-330218	D ZENER H HZ15L 2
14	ED-337990	D ZENER H HZ27L 1
15	ED-337750	D ZENER H 05Z16Y
16	ED-338096	D ZENER H 05Z2.0 X
17	ED-337761	D ZENER H 05Z24 X
18	ED-337751	D ZENER H 05Z4.3 X
19	ED-323534	D ZENER H 05Z20 Z
20	EF-258344	⚠ FUSE SEMKO T 250V 0.80A (F2, 3, 4) (E, B, S, V)
21	EF-623125	⚠ FUSE SEMKO T 250V 2.5A (F1) (E, B, S, V)
22	EF-623125	⚠ FUSE SEMKO T 250V 2.5A (F1) (U)
23	EF-249851	⚠ FUSE SEMKO T 250V 5A (F1) (U)
24	EF-459843	⚠ FUSE ST6 125V 5A (F1) (C, A)
25	EF-200952	⚠ FUSE TSC A 250V 6.3A (F1) (J)
26	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2, 3, 4) (J)
27	EF-309391	⚠ FUSE TSC 125V 0.08A (F2) (C, A)
28	EF-310229	⚠ FUSE TSC 125V 1A (F3, 4) (C, A)
29	EI-337593	IC STK-1060 (2)
30	EI-200938	IC TA75558S
31	EJ-337405	⚠ SOCKET OUTLET S2T733T164 JUC 3×2P (U, J, C, A)
32	EL-337757	PL LEAD 14.0V 50MA
33	EP-323565	RELAY POWER G2Z-222P-US 2NO 24V
34	EP-337416	RELAY SIGNAL G2V-282P-NL 2TR 12V
35	ER-338000	⚠ R FUSE ERD2FC F10 1/4W 2200G
36	ER-337756	⚠ R FUSE ERD2FC F10 1/4W 4700G
37	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G
38	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)
39	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (A)
40	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
41	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)
42	ES-337394	SW PUSH SUL122A 02-2 S
43	ES-337392	SW PUSH SUL232S 2-THROW
44	ES-337393	SW PUSH SUL241A 2-THROW
45	ES-337998	SW PUSH SUL532A 5-THROW
46	ES-337389	SW PUSH SUN222A 2-THROW
47	ES-337317	SW REMOTE B SWR1300 L=300
48	ES-337403	SW REMOTE O SUR510
49	ES-337388	SW REMOTE S SSR2435 04-3
50	ES-323369	SW REMOTE S SSR24602D 04-6
51	ES-337398	SW REMOTE W SBU0006F L=120
52	ET-337984	TR FET 2SK150 BL, GR
53	ET-337759	TR FET 2SK246 GR
54	ET-337234	TR FET 2SK270 GR, BL
55	ET-200479	TR 2SA1115 D, E, F
56	ET-337985	TR 2SA1144 O, Y
57	ET-305463	TR 2SA970 GR, BL
58	ET-308866	TR 2SA979 G, H
59	ET-337760	TR 2SA984K F
60	ET-301165	TR 2SB631K E, F
61	ET-307195	TR 2SC2240 GR, BL
62	ET-337758	TR 2SC2259 G, H
63	ET-308977	TR 2SC2274K F
64	ET-337986	TR 2SC2704 O, Y
65	ET-316171	TR 2SC536K-NP E, F
66	ET-300931	TR 2SD600K E, F
67	ET-328440	TR 2SD863-V8 E, F
68	EV-325629	VR ROTARY 16P20×1Q C104
69	EV-325630	VR ROTARY 16P20×1R C104
70	EV-337987	VR ROTARY 16P20×2W 1Z254 2Z254
71	EV-337308	VR SLIDE 100P2SV0B B254

1. MAIN AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BA-A2018A060A	PC MAIN AMP BLK AM-U41 (U)
1-2	BA-A2018A060B	PC MAIN AMP BLK AM-U41 (J)
1-3	BA-A2018A060C	PC MAIN AMP BLK AM-U41 (C) (C, A)
1-4	BA-A2018A060D	PC MAIN AMP BLK AM-U41 (E) (E, B, S)
1-5	BA-A2018A060E	PC MAIN AMP BLK AM-U41P (U)
1-6	BA-A2018A060F	PC MAIN AMP BLK AM-U41P (J)
1-7	BA-A2018A060G	PC MAIN AMP BLK AM-U41 (C) (C, A)
1-8	BA-A2018A060H	PC MAIN AMP BLK AM-U41 (E) (E, B, S)
1-9	BA-A2018A060J	PC MAIN AMP BLK AM-U41 (V)
1-10	BA-A2018A060K	PC MAIN AMP BLK AM-U41-P (V)

MAIN AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IC1	EI-200938	IC TA75558S
1-IC3	EI-200938	IC TA75558S
1-TR1	ET-328440	TR 2SD863-V8 E, F
1-TR2	ET-337984	TR FET 2SK150 BL, GR
1-TR3	ET-337758	TR 2SC2259 G, H
1-TR4	ET-308866	TR 2SA979 G, H
1-TR7	ET-305463	TR 2SA970 GR, BL
1-TR8	ET-307195	TR 2SC2240 GR, BL
1-TR9	ET-337985	⚠ TR 2SA1144 O, Y
1-TR10	ET-337986	⚠ TR 2SC2704 O, Y
1-TR11	ET-305463	TR 2SA970 GR, BL
1-TR12 to 14	ET-307195	TR 2SC2240 GR, BL
1-TR15	ET-305463	TR 2SA970 GR, BL
1-TR16, 17	ET-316171	TR 2SC536K-NP E, F
1-TR18	ET-305463	TR 2SA970 GR, BL
1-TR19	ET-328440	TR 2SD863-V8 E, F
1-TR20, 21	ET-337759	TR FET 2SK246 GR
1-TR22	ET-300931	⚠ TR 2SD600K E, F
1-TR23	ET-301165	⚠ TR 2SB631K E, F
1-TR24	ET-307195	TR 2SC2240 GR, BL
1-TR25	ET-337760	TR 2SA984K F
1-TR26	ET-300931	⚠ TR 2SD600K E, F
1-TR27	ET-301165	⚠ TR 2SB631K E, F
1-D1, 2	ED-338096	D ZENER H 05Z2.0 X
1-D3	ED-200469	D SILICON H DS448 FA5 F10
1-D4 to 7	ED-337153	D SILICON H DS446 FA5 F10
1-D8, 9	ED-200469	D SILICON H DS448 FA5 F10
1-D10	ED-337153	D SILICON H DS446 FA5 F10
1-D11	ED-337750	D ZENER H 05Z16 Y
1-D12	ED-337153	D SILICON H DS446 FA5 F10
1-D13	ED-336805	⚠ D SILICON DS135D-KB1 200/1.0A
1-D14	ED-337153	D SILICON H DS446 FA5 F10
1-D15	ED-200749	⚠ D SILICON DBA60-K15 400/6.0A
1-D16	ED-330320	⚠ D SILICON DBA10C 200/1.0A
1-D17	ED-323534	D ZENER 05Z20 Z
1-D18, 19	ED-337990	D ZENER H HZ27L 1
1-D20, 21	ED-330218	D ZENER H HZ15L 2
1-D22	ED-337153	D SILICON H DS446 FA5 F10
1-D23	ED-337751	D ZENER H 05Z4.3 X
1-D24	ED-337761	D ZENER H 05Z24 X
1-D25, 26	ED-200469	D SILICON H DS448 FA5 F10
1-D27, 28	ED-337751	D ZENER H 05Z4.3 X
1-D29	ED-337153	D SILICON H DS446 FA5 F10
1-SW1	ES-337389	SW PUSH SUN222A 2-THROW
1-SW2	ES-337394	SW PUSH SUL122A 02-2 S
1-VR1	EV-325629	VR ROTARY 16P20x1Q C104
1-VR2	EV-325630	VR ROTARY 16P20×1R C104
1-VR3	EV-337987	VR ROTARY 16P20×2W 1Z254 2Z254
1-RL1	EP-337416	RELAY SIGNAL G2V-282P-NL 2TR 12V
1-RL2	EP-323565	RELAY POWER G2Z-222P-US 2NO 24V
1-L1	EO-332116	COIL FIX 2 103AK-006A 2.2μH
1-FR1	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56ROG (U, E, B, S, V)
1-FR2	ER-338000	⚠ R FUSE ERD2FC F10 1/4W 2200G (U, E, B, S, V)
1-FR3, 4	ER-337756	⚠ R FUSE ERD2FC F10 1/4W 4700G (U, E, B, S, V)
1-R17	ER-324337	⚠ R CB H SNP FS RDS 1/4W 560J (U, J, C, A)
1-R32	ER-337752	⚠ R OMF H FS 1W 103J
1-R35	ER-324185	⚠ R CB H SNP FS RDS 1/4W 221J (U, J, C, A)
1-R39, 40	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R41, 42	ER-322591	⚠ R CB H SNP FS RDS 1/4W 101J
1-R47, 48	ER-328082	⚠ R CB H SNP FS RDS 1/4W 332J
1-R51	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R52	ER-333689	⚠ R CB H SNP FS RDS 1/2W 682J
1-R59, 60	ER-323075	⚠ R CB H SNP FS RDS 1/2W 472J
1-R61, 62	ER-316802	⚠ R CB H SNP FS RDS 1/4W 471J (U, J, C, A)
1-R68, 69	ER-337754	⚠ R OMF H SNP FS 1W 100J
1-R74	ER-337755	⚠ R OMF H SNP FS 2W 222J
1-R75	ER-322361	⚠ R OMF H SNP FS 2W 102J
1-R76	ER-624756	⚠ R OMF H FS 2W 331J
1-R80	ER-337754	⚠ R OMF H SNP FS 1W 100J
1-R90, 91	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R94, 95	ER-333698	⚠ R CB H SNP FS RDS 1/2W 821J
1-C27, 28	EC-332052	C EC V F05 NP SM 4R7M 35DC
1-C31	EC-334013	C EC V CUT NP SM 331M 6.3DC
1-C38, 39	EC-337306	C EC V 123/56DC
1-C42	EC-320548	C CE V F 103Z 250AC (U, J,C, A)
1-C42	EC-326583	C MMY V CUT CF921 473K 400DC (E, B, S, V)
1-C43	EC-320548	C CE V F 103Z 250AC (U, J,C, A)
1-C43	EC-326583	C MMY V CUT CF921 473K 400DC (E, B, S, V)
1-C44, 45	EC-320548	C CE V F 103Z 250AC
1-C46 to 49	EC-320548	C CE V F 103Z 250AC (E, B,S, V)

MUTE P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-SW1	ES-337393	SW PUSH SUL241A 2-THROW

SPEAKER SW P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-SW1	ES-337392	SW PUSH SUL232S 2-THROW

LAMP (1) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IN1, 2	EL-337757	PL LEAD 14-0V 50MA

LAMP (2) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IN1	EL-337757	PL LEAD 14.0V 50MA
1-D1 to 4	ED-337391	D LED GL-5NG6 GRN

VR (1) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-VR1	EV-337308	VR SLIDE 100P2SV0B B254

HEAD PHONE P.C BOARD BLOCK (EXCEPT V)

REF. NO.	PARTS NO.	DESCRIPTION
1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)

HEAD PHONE P.C BOARD BLOCK (V ONLY)

REF. NO.	PARTS NO.	DESCRIPTION
1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)
1-L1	EO-336934	COIL FIX 1 LAL03KH 2.2μH M

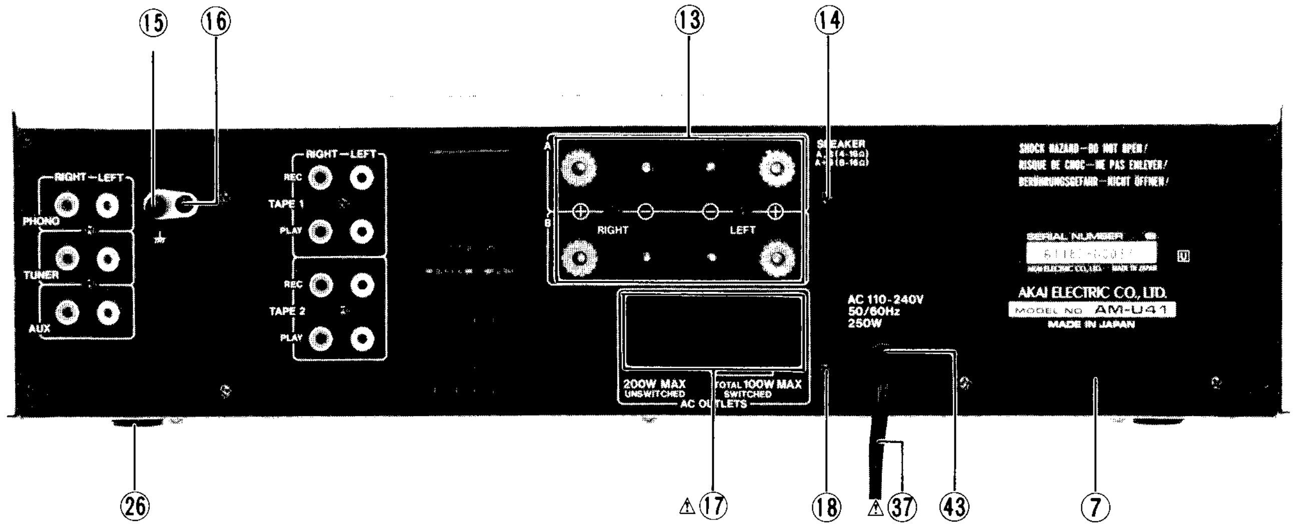
2. EQUALIZER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BA-A2018A040A	PC EQ BLK AM-U41 (U) (U, J, C, A, E, B, S)
2-2	BA-A2018A040B	PC EQ BLK AM-U41 (V)
	EQUALIZER P.C BOARD BLOCK	
2-TR1	ET-337234	TR FET 2SK270 GR, BL
2-TR2, 3	ET-307195	TR 2SC2240 GR, BL
2-TR4 to 6	ET-305463	TR 2SA970 GR, BL
2-TR7	ET-307195	TR 2SC2240 GR, BL
2-TR8	ET-308977	TR 2SC2274K F
2-TR9	ET-337760	TR 2SA984K F
2-D1 to 3	ED-200469	D SILICON H DS448 FA5 F10
2-D4	ED-323057	D VARISTER MV12
2-D5	ED-200469	D SILICON H DS448 FA5 F10
2-J1	EJ-337404	PIN J AJC-052-ABB P 6P
2-J4	EJ-324913	SOCKET JAMPER W-D0606 6P
2-SW1	ES-337388	SW REMOTE S SSR2435 04-3
2-SW2	ES-337998	SW PUSH SUL532A 5 THROW
2-SW3	ES-323369	SW REMOTE S SSR24602D 04-6
2-L1	EO-337684	COIL FIX 2 FL12R751E 750μH
2-L2, 3	EO-336934	COIL FIX 1 LAL03KH 2.2μH M
2-FR1, 2	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G
2-R15	ER-337999	R MF H F10 1/4W 82R0F
2-R16	ER-337100	R MF H F10 1/4W 9R10F
2-R17	ER-323352	R MF H F10 1/4W 4532F
2-R18	ER-323351	R MF H F10 1/4W 3741F
2-R27, 28	ER-324934	R CB H SNP FS RDS 1/4W 220J
2-C6	EC-324103	C PP V SNP PS 6972G 50DC
2-C7	EC-324102	C PP V SNP PS 2002G 50DC
	PIN JACK P.C BOARD BLOCK	
2-J1	EO-336934	COIL FIX 1 LAL03KH 2.2μH M
2-J2	EJ-336915	PIN J C-810 P 4P
2-L1 to 4	EO-336934	COIL FIX 1 LAL03KH 2.2μH M

3. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-SW1	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)
3-SW1	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
3-SW1	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)
3-SW1	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (A)
3-FL1	EO-338409	⚠ COIL LF FKOB160MH02 250μH (V)
3-C1	EC-320548	⚠ C CE V F 103Z 250AC (U, J)
3-C1	EC-338411	⚠ C CE V FZ 103P 400AC (B, S, V)
3-C1	EC-330308	⚠ C MMY V ECQUF 103M 250AC (E)
3-C1	EC-314688	⚠ C CE V FZ 103P 125AC (C, A)

ASSEMBLY BLOCK


⑮
⑯
⑬
⑭
RIGHT — LEFT
PHONO
TUNER
AUX
REC
TAPE 1
PLAY
REC
TAPE 2
PLAY
A
B
RIGHT
LEFT
SPEAKER
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
SERIAL NUMBER
AKAI ELECTRIC CO., LTD.
MODEL NO. AM-U41
MADE IN JAPAN
AC 110-240V
50/60Hz
250W
200W MAX
UNSWITCHED
TOTAL 100W MAX
SWITCHED
AC OUTLETS
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⚠⑰
⑱
⚠㊲
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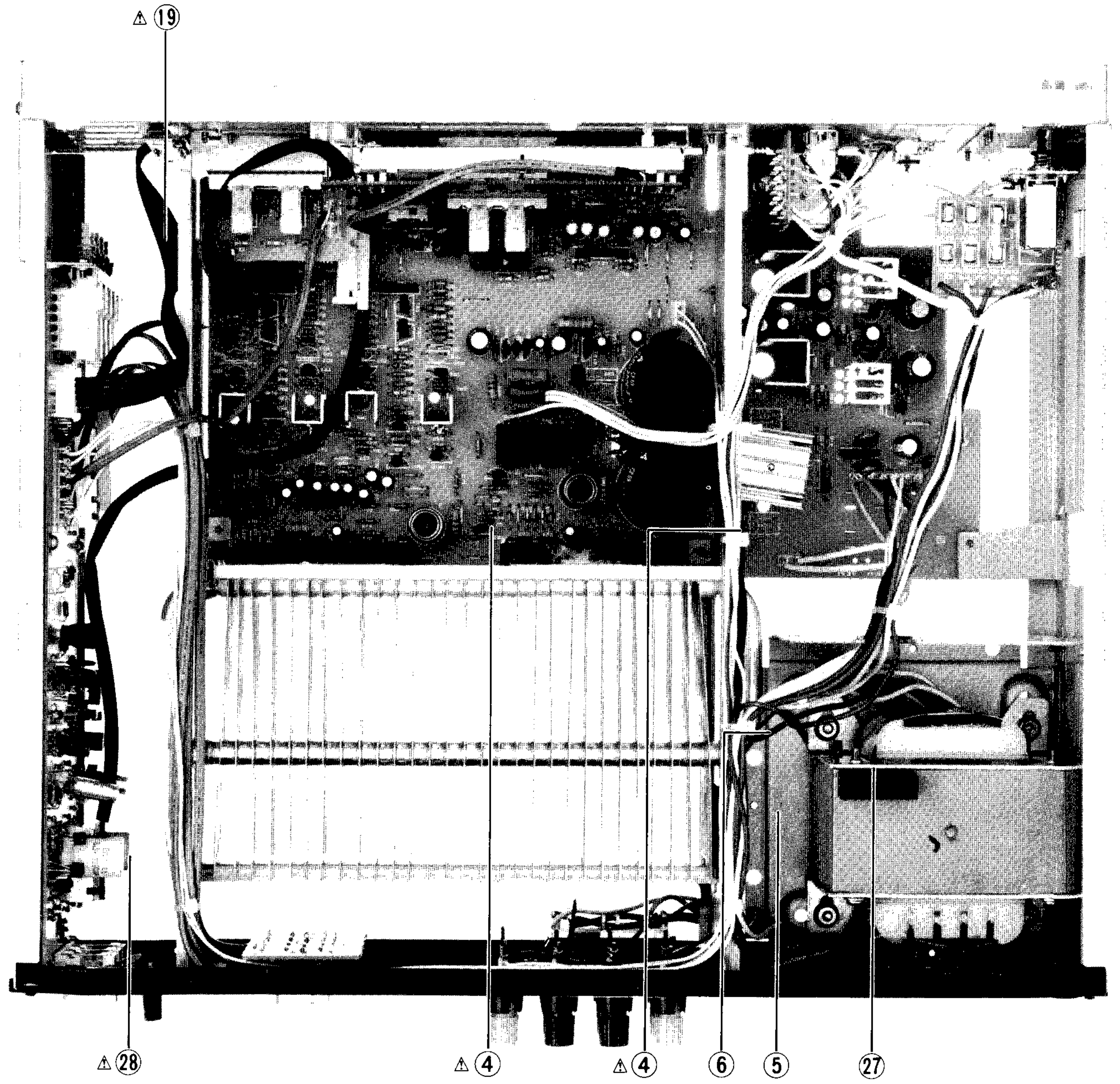
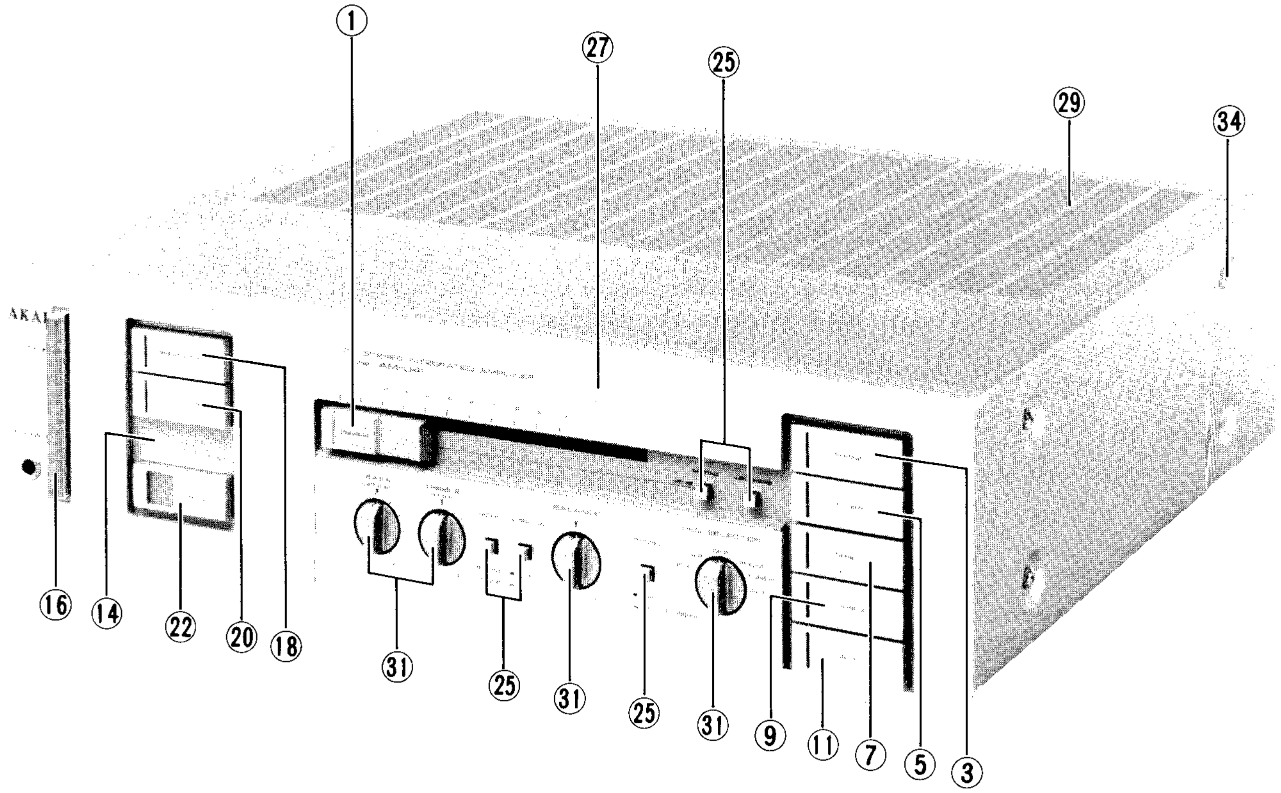
⑦



4. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	LED (1) P.C BOARD BLOCK	
4-1x	ED-337391	D LED GL-5NG6 GRN (D1to10)
	TERMINAL P.C BOARD BLOCK	
4-2x	EJ-342935	TERMINAL (J1) (V)
4-3x	EO-342936	COIL BALUN (FL1) (V)
	MAIN AMP BLOCK	
4-4	EI-337593	⚠ IC STK-1060 (2) (IC2)
	SW REMOTE BLOCK	
4-5	ES-337403	SW REMOTE O SUR510 (PHONO MM/MC)
4-6	ES-337317	SW REMOTE B SWR1300 L=300
	ASSEMBLY BLOCK	
4-7	SP-336440B	PANEL REAR AM-U41 (U)
4-8x	SP-336440A	PANEL REAR AM-U41 (J)
4-9x	SP-336440D	PANEL REAR AM-U41 (C)
4-10x	SP-336440C	PANEL REAR AM-U41 (A)
4-11x	SP-336440E	PANEL REAR AM-U41 (E) (E, V)
4-12x	SP-336440F	PANEL REAR AM-U41 (B) (B, S)
4-13	EJ-337406	TERMINAL W/SCREW ANB-024-AAA S 8P
4-14	ZS-522865	T2BR30x12STL BNI
4-15	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
4-16	ZS-308846	T2BR30x08STL BZN PROJECTION
4-17	EJ-337405	⚠ SOCKET OUTLET S2T733T164 JUC 3x2P (U, J, C, A)
4-18	ZS-308846	T2BR30x08STL BZN PROJECTION
4-19	BT-341435	⚠ TRANS POWER AMU-41T-70 (U)
4-20x	BT-341430	⚠ TRANS POWER AMU-41T-10 (J)
4-21x	BT-341432	⚠ TRANS POWER AMU-41T-30 (C)
4-22x	BT-341431	⚠ TRANS POWER AMU-41T-20 (A)
4-23x	BT-341433	⚠ TRANS POWER AMU-41T-40 (E, V)
4-24x	BT-341434	⚠ TRANS POWER AMU-41T-50 (B, S)
4-25x	SP-336441	COVER LOWER (A)
4-26	SA-332850	ROUND FOOT
4-27	ES-337398	SW REMOTE W SBU0006F L=120 (REC SELECTOR)
4-28	EF-249851	FUSE SEMKO T 250V 5A (F1) (U)
4-29x	EF-623125	⚠ FUSE SEMKO T 250V 2.5A (F1) (U)
4-30x	EF-200952	⚠ FUSE TSC A 250V 6.3A (F1) (J)
4-31x	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2, 3, 4) (J)
4-32x	EF-459843	⚠ FUSE ST6 125V 5A (F1) (C, A)
4-33x	EF-309391	⚠ FUSE TSC 125V 0.08A (F2) (C, A)
4-34x	EF-310229	⚠ FUSE TSC 125V 1A (F3, 4) (C, A)
4-35x	EF-623125	⚠ FUSE SEMKO T 250V 2.5A (F1) (E, B, S, V)
4-36x	EF-258344	⚠ FUSE SEMKO T 250V 0.80A (F2, 3, 4) (E, B, S, V)
4-37	EW-306428	⚠ AC CORD 2 CORES KP-205A, VFF J (U)
4-38x	EW-306427	⚠ AC CORD 2 CORES KP-211, VFF J (J)
4-39x	EW-328245	⚠ AC CORD 2 CORES KP-8/SPT-1 105C UC (C, A)
4-40x	EW-336923	⚠ AC CORD 2 CORES KP-419C, LTCE-2 F E (E, V)
4-41x	EW-336926	⚠ AC CORD GTBS-2F 24/0.20x2 B (B)
4-42x	EW-336924	⚠ AC CORD 2 CORES KP-560, LTSA-2F S (S)
4-43	SZ-631945	STRAIN RELIEF SR-4N4 (U, J, C, A, E, S, V)
4-44x	EJ-692908	STRAIN RELIEF SR-5N4 (B)

FINAL ASSEMBLY BLOCK



5. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	ESCUTCHEON PANEL (B) BLOCK	
5-1	SK-336479A	KNOB SLIDE
5-2x	SK-336479B	KNOB SLIDE-P
5-3	SK-B336472E	KNOB OPERATE (A-3) PART
5-4x	SK-B336472F	KNOB OPERATE (A-3)-P PART
5-5	SK-B336472G	KNOB OPERATE (A-4) PART
5-6x	SK-B336472H	KNOB OPERATE (A-4)-P PART
5-7	SK-B336472J	KNOB OPERATE (A-5) PART
5-8x	SK-B336472K	KNOB OPERATE (A-5)-P PART
5-9	SK-B336472L	KNOB OPERATE (A-6) PART
5-10x	SK-B336472M	KNOB OPERATE (A-6)-P PART
5-11	SK-B336472N	KNOB OPERATE (A-7) PART
5-12x	SK-B336472P	KNOB OPERATE (A-7)-P PART
5-13x	ZG-313027	SP T1-5.0/0.32-18.0 T1-140
	ESCUTCHEON PANEL (A) BLOCK	
5-14	BD-A2018A030A	ESCUTCHEON PANEL (A) BLK AM-U41
5-15x	BD-A2018A030B	ESCUTCHEON PANEL (A) BLK AM-U41-P
5-16	SK-B336468	KNOB OPERAT PART
5-17x	ZG-336449	SP PLATE (A)
5-18	SK-B336472A	KNOB OPERATE (A-1) PART
5-19x	SK-B336472B	KNOB OPERATE (A-1)-P PART
5-20	SK-B336472C	KNOB OPERATE (A-2) PART
5-21x	SK-B336472D	KNOB OPERATE (A-2)-P PART
5-22	SK-B336474A	KNOB OPERATE (B) PART
5-23x	SK-B336474B	KNOB OPERATE (B)-P PART
5-24x	ZG-336460	SP PUSH (D)

REF. NO.	PARTS NO.	DESCRIPTION
	FINAL ASSEMBLY BLOCK	
5-25	SK-336471A	KNOB MUTE (A)
5-26x	SK-336471B	KNOB MUTE (A)-P
5-27	SP-336465A	PANEL FRONT AM-U41
5-28x	SP-336465B	PANEL FRONT AM-U41-P
5-29	SP-336443A	COVER UPPER
5-30x	SP-336443B	COVER UPPER-P
5-31	SK-336470A	KNOB
5-32x	SK-336470B	KNOB-P
5-33x	ZW-305013	RV POP32
5-34	ZS-322570	ST BID40×08STL NI3
5-35x	ZS-322580	ST BID40×08STL BNI

III. MODEL AM-U61

RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION
1	BT-338023	⚠ TRANS POWER AM-U61T-10 (J)
2	BT-338024	⚠ TRANS POWER AM-U61T-20 (A)
3	BT-338025	⚠ TRANS POWER AM-U61T-30 (C)
4	BT-338026	⚠ TRANS POWER AM-U61T-40 (E)
5	BT-338028	⚠ TRANS POWER AM-U61T-50 (B, S)
6	BT-338029	⚠ TRANS POWER AM-U61T-60 (V)
7	BT-338030	⚠ TRANS POWER AM-U61T-70 (U)
8	ED-337391	D LED GL-5NG6 GRN
9	ED-337395	D LED SR538W RED
10	ED-330320	D SILICON DBA10C 200/1.0A
11	ED-336805	D SILICON DS135D-KB1 200/1.0A
12	ED-337153	D SILICON H DS446 FA5 F10
13	ED-200469	D SILICON H DS448 FA5 F10
14	ED-338041	D SILICON 10G4B41 400/10.0A
15	ED-323057	D VARISTER MV12
16	ED-330218	D ZENER H HZ15L 2
17	ED-337990	D ZENER H HZ27L 1
18	ED-328481	D ZENER H 05Z20 X
19	ED-306469	D ZENER H 05Z22 X
20	ED-338049	D ZENER H 05Z24 Y
21	ED-337751	D ZENER H 05Z4.3 X
22	EF-258344	⚠ FUSE SEMKO T 250V 0.80A (F2, 3, 4) (E, B, S, V)
23	EF-691007	⚠ FUSE SEMKO T 250V 3.15A (F1) (U)
24	EF-691007	⚠ FUSE SEMKO T 250V 3.15A (F1) (E, B, S, V)
25	EF-242605	⚠ FUSE SEMKO T 250V 6.30A (F1) (U)
26	EF-303348	⚠ FUSE ST6 125V 6.30A (F1) (C, A)
27	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2) (J)
28	EF-306949	⚠ FUSE TSC A 250V 1.25A (F3, 4) (J)
29	EF-341260	⚠ FUSE TSC A 250V 8.00A (F1) (J)
30	EF-309392	⚠ FUSE TSC 125V 1.25A (F2, 3, 4) (C, A)
31	EI-338022	IC STK-1080 (2)
32	EI-200938	IC TA75558S
33	EJ-337405	⚠ SOCKET OUTLET S2T733T164 JUC 3×2P (U, J, C, A)
34	EL-337757	PL LEAD 14.0V 50MA
35	EP-323565	RELAY POWER G2Z-222P-US 2NO 24V
36	EP-337416	RELAY SIGNAL G2V-282P-NL 2TR 12V
37	ER-338000	⚠ R FUSE ERD2FC F10 1/4W 2200G (E, B, S, V)
38	ER-337756	⚠ R FUSE ERD2FC F10 1/4W 4700G (E, B, S, V)
39	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G
40	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G (E, B, S, V)
41	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)
42	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)
43	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (A)
44	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
45	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)
46	ES-337394	SW PUSH SUL122A 02-2 S
47	ES-337392	SW PUSH SUL232S 2-THROW
48	ES-337393	SW PUSH SUL241A 2-THROW
49	ES-337998	SW PUSH SUL532A 5-THROW
50	ES-337389	SW PUSH SUN222A 2-THROW
51	ES-337401	SW REMOTE S SSR244 04-4
52	ES-337400	SW REMOTE S SSR26602D 06-6
53	ES-337399	SW REMOTE W SBU0006F L=120
54	ES-337402	SW REMOTE W SBU004F L=280
55	ET-337984	TR FET 2SK150 BL, GR
56	ET-337759	TR FET 2SK246 GR
57	ET-337234	TR FET 2SK270 GR, BL
58	ET-337985	TR 2SA1144 O,Y
59	ET-305463	TR 2SA970 GR, BL
60	ET-308866	TR 2SA979 G, H
61	ET-337760	TR 2SA984K F
62	ET-301165	TR 2SB631K E, F
63	ET-307195	TR 2SC2240 GR, BL
64	ET-337758	TR 2SC2259 G, H
65	ET-308977	TR 2SC2274K F
66	ET-337986	TR 2SC2704 O, Y
67	ET-316171	TR 2SC536K-NP E, F
68	ET-300931	TR 2SD600K E, F
69	ET-328440	TR 2SD863-V8 E, F
70	EV-338118	R S-FIX V H1052A 3P 0.15W 104
71	EV-330724	VR ROTARY 16P20×2C 1Z254
72	EV-330725	VR ROTARY 16P20×2D C 104
73	EV-330843	VR ROTARY 16P20×2E C 104
74	EV-337309	VR SLIDE 100P2SV0A B254

1. MAIN AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BA-A2019A060A	PC MAIN AMP BLK AM-61 (U)
1-2	BA-A2019A060B	PC MAIN AMP BLK AM-U61 (J)
1-3	BA-A2019A060C	PC MAIN AMP BLK AM-U61 (C) (C, A)
1-4	BA-A2019A060D	PC MAIN AMP BLK AM-U61 (E) (E, B, S)
1-5	BA-A2019A060E	PC MAIN AMP BLK AM-U61-P (U)
1-6	BA-A2019A060F	PC MAIN AMP BLK AM-U61 (J)
1-7	BA-A2019A060G	PC MAIN AMP BLK AM-U61-P (C) (C, A)
1-8	BA-A2019A060H	PC MAIN AMP BLK AM-U61-P (E) (E, B, S)
1-9	BA-A2019A060J	PC MAIN AMP BLK AM-U61 (V)
1-10	BA-A2019A060K	PC MAIN AMP BLK AM-U61-P (V)

MAIN AMP P. C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IC1	EI-200938	IC TA 75558S
1-IC3	EI-200938	IC TA75558S
1-TR1	ET-328440	TR 2SD863-V8 E, F
1-TR2	ET-337984	TR FET 2SK150 BL, GR
1-TR3	ET-337758	TR 2SC2259 G, H
1-TR4	ET-308866	TR 2SA979 G, H
1-TR5	ET-305463	TR 2SA970 GR, BL
1-TR6	ET-307195	TR 2SC2240 GR, BL
1-TR7	ET-305463	TR 2SA970 GR, BL
1-TR8	ET-307195	TR 2SC2240 GR, BL
1-TR9	ET-337985	⚠ TR 2SA1144 O, Y
1-TR10	ET-337986	⚠ TR 2SC2704 O, Y
1-TR11	ET-305463	TR 2SA970 GR, BL
1-TR12 to 14	ET-307195	TR 2SC2240 GR, BL
1-TR15	ET-305463	TR2SA970 GR, BL
1-TR16, 17	ET-316171	TR 2SC536K-NP E, F
1-TR18	ET-305463	TR 2SA970 GR, BL
1-TR19	ET-328440	TR 2SD863-V8 E, F
1-TR20, 21	ET-337759	TR FET 2SK246 GR
1-TR22	ET-300931	⚠ TR 2SD600K E, F
1-TR23	ET-301165	⚠ TR 2SB631K E, F
1-TR24	ET-307195	TR 2SC2240 GR, BL
1-TR25	ET-337760	TR 2SA984K F
1-TR26	ET-300931	⚠ TR 2SD600K E, F
1-TR27	ET-301165	⚠ TR 2SB631K E, F
1-D3	ED-200469	D SILICON H DS448 FA5 F10
1-D4 to 7	ED-337153	D SILICON H DS446 FA5 F10
1-D8, 9	ED-200469	D SILICON H DS448 FA5 F10
1-D10	ED-337153	D SILICON H DS446 FA5 F10
1-D11	ED-328481	D ZENER H 05Z20 X
1-D12	ED-337153	D SILICON H DS446 FA5 F10
1-D13	ED-336805	D SILICON DS135D-KB1 200/1.0A
1-D14	ED-337153	D SILICON H DS446 FA5 F10
1-D15	ED-338041	⚠ D SILICON 10G4B41 400/10.0A
1-D16	ED-330320	⚠ D SILICON DBA10C 200/1.0A
1-D17	ED-306469	D ZENER H 05Z22 X
1-D18, 19	ED-337990	D ZENER H HZ27L 1
1-D20, 21	ED-330218	D ZENER H HZ15L 2
1-D22	ED-337153	D SILICON H DS446 FA5 F10
1-D23	ED-337751	D ZENER H 05Z4.3 X
1-D24	ED-338049	D ZENER H 05Z24 Y
1-D25, 26	ED-200469	D SILICON H DS448 FA5 F10
1-D27, 28	ED-337751	D ZENER H 05Z4.3 X
1-D29	ED-337153	D SILICON H DS446 FA5 F10
1-SW1	ES-337389	SW PUSH SUN222A 2-THROW
1-SW2	ES-337394	SW PUSH SUL122A 02-2 S
1-VR1	EV-330725	VR ROTARY 16P20×2D C104
1-VR2	EV-330843	VR ROTARY 16P20×2E C104
1-VR3	EV-330724	VR ROTARY 16P20×2C 1Z254
1-RL1	EP-337416	RELAY SIGNAL G2V-282P-NL 2TR 12V
1-RL2	EP-323565	RELAY POWER G2Z-222P-US 2NO 24V
1-L1	EO-332116	COIL FIX 2 103AK-006A 2.2µH
1-FR1	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G (E, B, S, V)
1-FR2	ER-338000	⚠ R FUSE ERD2FC F10 1/4W 2200G (E, B, S, V)
1-FR3, 4	ER-337756	⚠ R FUSE ERD2FC F10 1/4W 4700G (E, B, S, V)
1-R17	ER-324337	⚠ R CB H SNP FS RDS 1/4W 560J (U, J, C, A)
1-R32	ER-337752	⚠ R OMF H FS 1W 103J
1-R35	ER-324185	⚠ R CB H SNP FS RDS 1/4W 221J (U, J, C, A)
1-R39, 40	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R41, 42	ER-322421	⚠ R CB H SNP FS RDS 1/4W 820J
1-R47, 48	ER-328082	⚠ R CB H SNP FS RDS 1/4W 332J
1-R51	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R52	ER-333689	⚠ R CB H SNP FS RDS 1/2W 682J
1-R59, 60	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R61, 62	ER-316802	⚠ R CB H SNP FS RDS 1/4W 471J
1-R68, 69	ER-337754	⚠ R OMF H SNP FS 1W 100J
1-R74	ER-337755	⚠ R OMF H SNP FS 2W 222J
1-R75	ER-338084	⚠ R OMF H SNP FS 2W 122J
1-R76	ER-624756	⚠ R OMF H FS 2W 331J
1-R80	ER-337754	⚠ R OMF H SNP FS 1W 100J
1-R90, 91	ER-323075	⚠ R CB H SNP FS RDS 1/4W 472J
1-R94, 95	ER-333698	⚠ R CB H SNP FS RDS 1/2W 821J
1-C27, 28	EC-332052	C EC V FO5 NP SM 4R7M 35DC
1-C31	EC-334013	C EC V CUT NP SM 331M 6.3DC
1-C42	EC-320548	C CE V F 103Z 250AC (U, J, C, A)
1-C42	EC-326583	C MMY V CUT CF921 473K 400DC (E, B, S, V)
1-C43	EC-320548	C CE V F 103Z 250AC (U, J, C, A)
1-C43	EC-326583	C MMY V CUT CF921 473K 400DC (E, B, S, V)
1-C44, 45	EC-320548	C CE V F 103Z 250AC
1-C46 to 49	EC-320548	C CE V F 103Z 250AC
1-C50, 51	EC-201643	C EC V CUT SM 471M 80DC
1-C53, 54	EC-316189	C EC V F05 SM 1R0M 100DC
1-C59, 60	EC-338032	C CE V F05 SL 470K 500DC

MUTE P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-SW1	ES-337393	SW PUSH SUL241A 2-THROW

SPEAKER SW P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-SW1	ES-337392	SW PUSH SUL232S 2-THROW

LAMP (1) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IN1, 2	EL-337757	PL LEAD 14.0V 50MA

LAMP (2) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-IN1	EL-337757	PL LEAD 14.0V 50MA
1-D1 to 3	ED-337391	D LED GL-5NG5 GRN
1-D4	ED-337391	D LED GL-5NG6 GRN

HEAD PHONE P.C BOARD BLOCK (EXCEPT V)

REF. NO.	PARTS NO.	DESCRIPTION
1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)

HEAD PHONE P.C BOARD BLOCK (V ONLY)

REF. NO.	PARTS NO.	DESCRIPTION
1-J8	EJ-336885	PHONE J 3P HLJ0607-023 6.3
1-J8	EJ-336886	PHONE J 3P HLJ0607-020 6.3 (P)
1-L1	EO-336934	COIL FIX 1 LAL03KH 2.2µH M

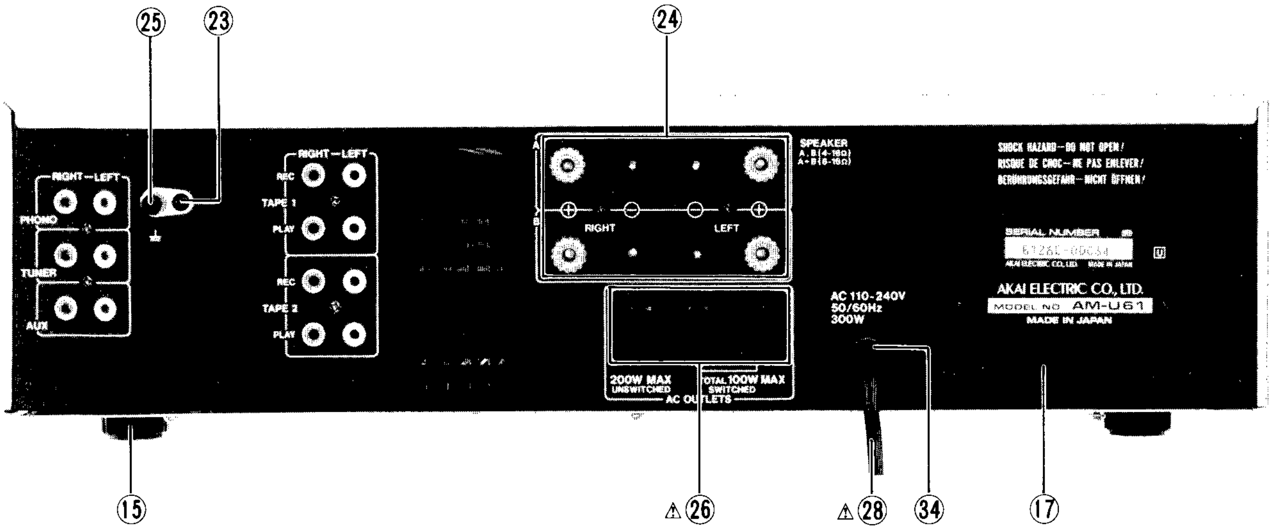
2. EQUALIZER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BA-A2019A120A	PC EQ BLK AM-U61 (U) (U, J, C, A, E, B, S)
2-2	BA-A2019A120B	PC EQ BLK AM-U61 (V)
	EQUALIZER P.C BOARD BLOCK	
2-IC1	EI-200938	IC TA75558S
2-TR1	ET-337234	TR FET 2SK270 GR, BL
2-TR2, 3	ET-307195	TR 2SC2240 GR, BL
2-TR4 to 6	ET-305463	TR 2SA970 GR, BL
2-TR7	ET-307195	TR 2SC2240 GR, BL
2-TR8	ET-308977	TR 2SC2274K F
2-TR9	ET-337760	TR 2SA984K F
2-D1, 2	ED-200469	D SILICON H DS448 FA5 F10
2-D3	ED-200469	D SILICON H DS448 FA5 F10
2-D4	ED-323057	D VARISTER MV12
2-D5	ED-200469	D SILICON H DS448 FA5 F10
2-D6, 7	ED-330218	D ZENER H HZ15L 2
2-J1	EJ-337404	PIN J AJC-052-ABB P 6P
2-SW1	ES-337401	SW REMOTE S SSR244 04-4
2-SW2	ES-337998	SW PUSH SUL532A 5-THROW
2-SW3	ES-337400	SW REMOTE S SSR26602D 06-6
2-VR1	EV-338118	R S-FIX V H1052A 3P 0.15A 104
2-L1	EO-337684	COIL FIX 2 FL12R751E 750µH
2-L2, 3	EO-336934	COIL FIX 1 LAL03KH 2.2µH M
2-FR1,2	ER-332225	⚠ R FUSE ERD2FC F10 1/4W 56R0G
2-R14	ER-309781	R MF V 1/4W 1200F
2-R15	ER-311768	R MF H 1/4W 2700F
2-R16	ER-337100	R MF H F10 1/4W 9R10F
2-R17	ER-323352	R MF H F10 1/4W 4532F
2-R18	ER-323351	R MF H F10 1/4W 3741F
2-R27, 28	ER-324934	⚠ R CB H SNP FS RDS 1/4W 220J
2-R37, 38	ER-200944	⚠ R CB H SNP FS RDS 1/4W 152J
2-C6	EC-324103	C PP V SNP PS 6972G 50DC
2-C7	EC-324102	C PP V SNP PS 2002G 50DC
2-C15, 16	EC-332052	C EC V F05 NP SM 4R7M 35DC
	PIN JACK P.C BOARD BLOCK	
2-J2, 3	EJ-336915	PIN J C-810 P 4P
2-L1 to 4	EO-336934	COIL FIX 1 LAL03KH 2.2µH M (V)

3. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-SW1	ES-336909	⚠ SW PUSH ESB-90259S 01-1 C (U, E, B, S, V)
3-SW1	ES-328787	⚠ SW PUSH ESB-90149R 01-1 J (J)
3-SW1	ES-337390	⚠ SW PUSH ESB-70274T 01-1 UC (C)
3-SW1	ES-328788	⚠ SW PUSH ESB-90144T 01-1 UC (A)
3-FL1	EO-338409	⚠ COIL LF FKOB160MH02 250µH (V)
3-C1	EC-320548	⚠ C CE V F 103Z 250AC (U, J)
3-C1	EC-338411	⚠ C CE V FZ 103P 400AC (B, S, V)
3-C1	EC-330308	⚠ C MMY V ECQUF 103M 250AC (E)
3-C1	EC-314688	⚠ C CE V FZ 103P 125AC (C, A)

ASSEMBLY BLOCK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RIGHT — LEFT
PHONO
TUNER
AUX
REC
TAPE 1
PLAY
TAPE 2
SPEAKER
A, B (4-16Ω)
A+B (8-16Ω)
RIGHT
LEFT
AC 110-240V
50/60Hz
300W
200W MAX UNSWITCHED
TOTAL 100W MAX SWITCHED
AC OUTLETS
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
SERIAL NUMBER
AKAI ELECTRIC CO., LTD.
MODEL NO AM-U61
MADE IN JAPAN
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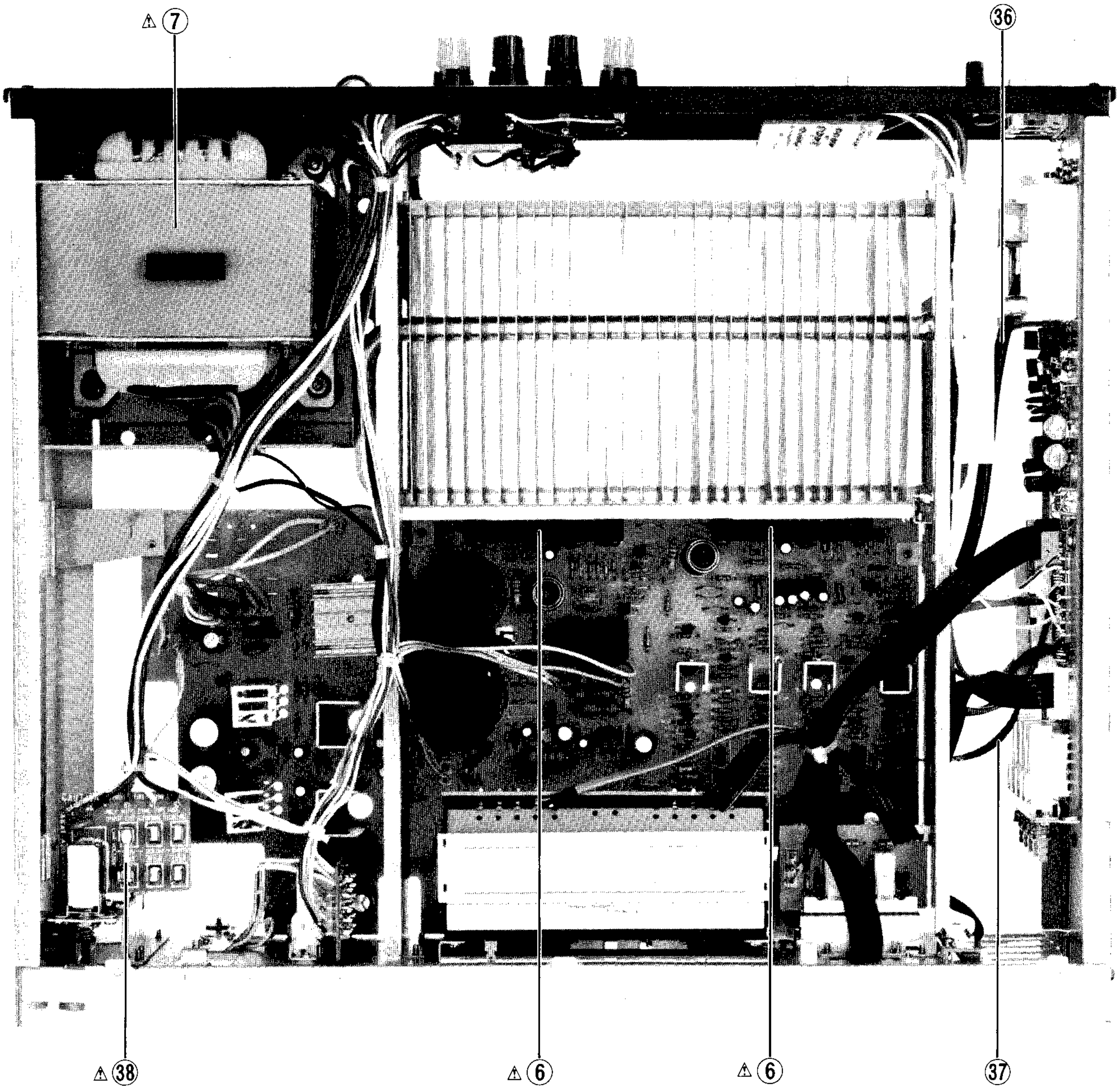
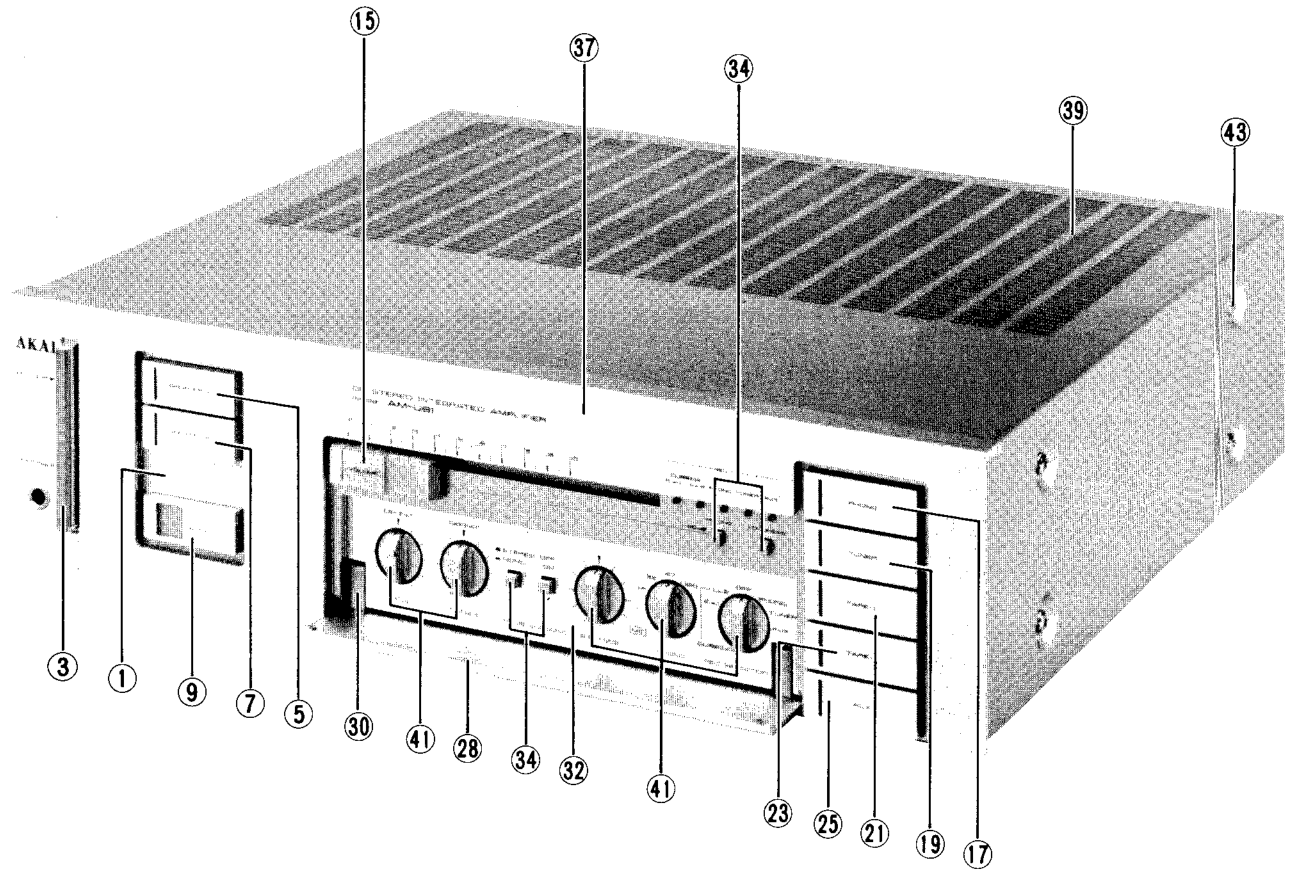


4. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	VR P.C BOARD BLOCK	
4-1x	EV-337309	VR SLIDE 100P2SV0A B254 (VR1)
	LED (1) P.C BOARD BLOCK	
4-2x	ED-337391	D LED GL-5NG6 GRN (D1 to 10)
	TERMINAL P.C BOARD BLOCK	
4-3x	EJ-342935	TERMINAL (J1) (V)
4-4x	EO-342936	COIL BALUN (FL1) (V)
	LED (2) P.C BOARD BLOCK	
4-5x	ED-337395	D LED SR538W RED (D1 to 5)
	MAIN AMP P.C BOARD BLOCK	
4-6	EI-338022	⚠ IC STK-1080 (2) (IC2)
	ASSEMBLY BLOCK	
4-7	BT-338030	⚠ TRANS POWER AM-U61T-70 (U)
4-8x	BT-338023	⚠ TRANS POWER AM-U61T-10 (J)
4-9x	BT-338025	⚠ TRANS POWER AM-U61T-30 (C)
4-10x	BT-338024	⚠ TRANS POWER AM-U61T-20 (A)
4-11x	BT-338026	⚠ TRANS POWER AM-U61T-40 (E)
4-12x	BT-338028	⚠ TRANS POWER AM-U61T-50 (B, S)
4-13x	BT-338029	⚠ TRANS POWER AM-U61T-60 (V)
4-14x	SP-336494	COVER BOTTOM (B)
4-15	SA-312465	CIRCULAR FOOT (A) PART CA
4-16x	ZS-565942	T2PAN40×08STL CMT
4-17	SP-336440H	PANEL REAR AM-U61 (U)
4-18x	SP-336440G	PANEL REAR AM-U61 (J)
4-19x	SP-336440K	PANEL REAR AM-U61 (C)
4-20x	SP-336440J	PANEL REAR AM-U61 (A)
4-21x	SP-336440L	PANEL REAR AM-U61(E) (E, V)
4-22x	SP-336440M	PANEL REAR AM-U61 (B) (B, S)
4-23	ZS-308846	T2BR30×08STL BZN PROJECTION
4-24	EJ-337406	TERMINAL W/SCREW ANB-024-AAA S 8P
4-25	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
4-26	EJ-337405	⚠ SOCKET OUTLET S2T733T164 JUC 3×2P (U, J, A)
4-27x	EJ-337405	⚠ SOCKET OUTLET S2T733T164 JUC 3×2P (C)
4-28	EW-306428	⚠ AC CORD 2 CORES KP-205A, VFF J (U)
4-29x	EW-306427	⚠ AC CORD 2 CORES KP-211, VFFJ (J)
4-30x	EW-328245	⚠ AC CORD 2 CORES KP-8/SPT-1 105C UC (C, A)
4-31x	EW-336923	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E, V)
4-32x	EW-336926	⚠ AC CORD GTBS-2F 24/0.20×2 B (B)
4-33x	EW-336924	⚠ AC CORD 2 CORES KP-560, LTSA-2F S (S)
4-34	SZ-631945	STRAIN RELIEF SR-4N-4 (U, J, C, A, E, S, V)
4-35x	EJ-692908	STRAIN RELIEF SR-5N-4 (B)
4-36	ES-337402	SW REMOTE W SBU004F L=280 (PHONO MM/MC)
4-37	ES-337399	SW REMOTE W SBU0006F L=120
4-38	EF-242605	⚠ FUSE SEMKO T 250V 6.30A (F1) (U)
4-39x	EF-691007	⚠ FUSE SEMKO T 250V 3.15A (F1) (U)
4-40x	EF-341260	⚠ FUSE TSC A 250V 8.00A (F1) (J)
4-41x	EF-309388	⚠ FUSE TSC A 250V 0.80A (F2) (J)
4-42x	EF-306949	⚠ FUSE TSC A 250V 1.25A (F3, 4) (J)
4-43x	EF-303348	⚠ FUSE ST6 125V 6.30A (F1) (C, A)
4-44x	EF-309392	⚠ FUSE TSC 125V 1.25A (F2, 3, 4) (C, A)
4-45x	EF-691007	⚠ FUSE SEMKO T 250V 3.15A (F1) (E, B, S, V)
4-46x	EF-258344	⚠ FUSE SEMKO T 250V 0.80A (F2, 3, 4) (E, B, S, V)
4-47x	ZW-305013	RV POP32 (A)

FINAL ASSEMBLY BLOCK



5. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	ESCUTCHEON PANEL A-2 BLOCK	
5-1	BD-A2019A020A	ESCUTCHEON PANEL A-2 BLK AM-U61
5-2x	BD-A2019A020B	ESCUTCHEON PANEL A-2 BLK AM-U61-P
5-3	SK-B336468	KNOB OPERATE PART
5-5	SK-B336472A	KNOB OPERATE (A-1) PART
5-6x	SK-B336472B	KNOB OPERATE (A-1)-P PART
5-7	SK-B336472C	KNOB OPERATE (A-2) PART
5-8x	SK-B336472D	KNOB OPERATE (A-2)-P PART
5-9	SK-B336474A	KNOB OPERATE (B) PART
5-10x	SK-B336474B	KNOB OPERATE (B)-P PART
5-11x	ZG-336460	SP PUSH (D)
	ESCUTCHEON PANEL (C) BLOCK	
5-12	BD-A2019A030A	ESCUTCHEON PANEL (C) BLK AM-U61
5-13x	BD-A2019A030B	ESCUTCHEON PANEL (C) BLK AM-U61-P
5-14x	TA-336480	GUIDE SLIDE KNOB
5-15	SK-336479A	KNOB SLIDE
5-16x	SK-336479B	KNOB SLIDE-P
5-17	SK-B336472E	KNOB OPERATE (A-3) PART
5-18x	SK-B336472F	KNOB OPERATE (A-3)-P PART
5-19	SK-B336472G	KNOB OPERATE (A-4)-P PART
5-20x	SK-B336472H	KNOB OPERATE (A-4)-P PART
5-21	SK-B336472J	KNOB OPERATE (A-5)-P PART
5-22x	SK-B336472K	KNOB OPERATE (A-5)-P PART
5-23	SK-B336472L	KNOB OPERATE (A-6)-PART
5-24x	SK-B336472M	KNOB OPERATE (A-6)-P PART
5-25	SK-B336472N	KNOB OPERATE (A-7)-PART
5-26x	SK-B336472P	KNOB OPERATE (A-7)-P PART
5-27x	ZG-313027	SP T1-5.0/0.32-18.0 T1-140
5-28	BD-B336500A	PANEL DOOR PART
5-29x	BD-B336500B	PANEL DOOR-P PART
5-30	TA-336501A	HINGE
5-31x	TA-336501B	HINGE-P
5-32	SP-336499A	PANEL OPERATION
5-33x	SP-336499B	PANEL OPERATION
	FINAL ASSEMBLY BLOCK	
5-34	SK-336471A	KNOB MUTE (A)
5-35x	SK-336471B	KNOB MUTE (A)-P
5-36x	SK-336471C	KNOB MUTE (B)
5-37	SP-336496A	PANEL FRONT AM-U61
5-38x	BD-336496B	PANEL FRONT AM-U61-P
5-39	SP-336443A	COVER UPPER
5-40x	SP-336443B	COVER UPPER-P
5-41	SK-336470A	KNOB
5-42x	SK-336470B	KNOB-P
5-43	ZS-322570	ST BID40×08STL NI3
5-44x	ZS-322580	ST BID40×08STL BNI

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BA-A3027A030F	1-6
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BD-A3027A020D	5-4x
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ER-337325	1-FL5
ER-337326	1-FL5
ER-337327	1-FL6
ER-337328	1-FL6
ER-337989	1-FL1 to 3
ER-338408	1-FR1
ER-341654	1-FL4
ES-328414	1-SW1
ES-328787	2-SW1
ES-328788	2-SW1
ES-336760	1-SW1 to 20
ES-336909	2-SW1
ES-336909	3-SW1
ET-307193	1-TR53
ET-307193	1-TR49
ET-316643	1-TR36 to 44
ET-316643	1-TR48
ET-316643	1-TR32 to 35
ET-316643	1-TR26
ET-316643	1-TR23
ET-316643	1-TR18
ET-316643	1-TR9 to 13
ET-316643	1-TR51, 52
ET-316643	1-TR27
ET-316643	1-TR2 to 5
ET-316643	1-TR31
ET-322778	1-TR50
ET-322778	1-TR47
ET-322778	1-TR45
ET-322778	1-TR1
ET-322778	1-TR30
ET-322778	1-TR19 to 22
ET-322778	1-TR6
ET-322778	1-TR17
ET-322778	1-TR46
ET-323232	1-TR24
ET-336864	1-TR29
ET-336864	1-TR28
ET-337604	1-TR8
ET-337604	1-TR14 to 16
ET-337604	1-TR7
EV-337993	1-VR4 to 6
EV-337993	1-VR2
EV-337995	1-VR7
EV-337995	1-VR3
EV-337996	1-VR8
EV-338588	1-VR1
EW-305691	4-11x
EW-306427	4-10x
EW-306428	4-9
EW-336923	4-12x
EW-336924	4-14x
EW-336926	4-13x
SA-332850	4-27
SE-342181	5-15x
SK-332744	5-17
SK-332745A	5-9
SK-332745B	5-10x
SK-332747A	5-11
SK-332747B	5-12x
SK-332750A	5-13
SK-332750B	5-14x
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SK-342499C	5-21
SK-342499D	5-22x
SP-332734A	4-1
SP-332734B	4-2x
SP-332734C	4-3x
SP-332734D	4-4x
SP-332734E	4-5x
SP-332734F	4-6x
SP-332734G	4-7x
SP-332734H	4-8x
SP-332738	4-26x
SP-332743A	5-5x
SP-332743B	5-6x
SP-332743C	5-7x
SP-332743D	5-8x
SP-332752A	5-27
SP-332752B	5-28x
SP-332753A	5-23
SP-332753B	5-24x
SP-332753C	5-25x
SP-332753D	5-26x
SZ-332739	4-17
SZ-332748	5-16x
SZ-631945	4-15
ZG-313182	5-18x
ZS-319460	4-18
ZS-322570	5-29
ZS-322580	5-30x
ZW-305013	4-29x
ZW-698308	4-24x

Parts No.	Ref. No. & Symbol No.
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BA-A2018A040B	2-2
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BA-A2018A060B	1-2
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BA-A2018A060D	1-4
BA-A2018A060E	1-5
BA-A2018A060F	1-6
BA-A2018A060G	1-7
BA-A2018A060H	1-8
BA-A2018A060J	1-9
BA-A2018A060K	1-10
BD-A2018A030A	5-14
BD-A2018A030B	5-15x
BT-341430	4-20x
BT-341431	4-22x
BT-341432	4-21x
BT-341433	4-23x
BT-341434	4-24x
BT-341435	4-19
EC-314688	3-C1
EC-320548	1-C42
EC-320548	1-C43
EC-320548	1-C44, 45
EC-320548	1-C46 to 49
EC-320548	3-C1
EC-324102	2-C7
EC-324103	2-C6
EC-326583	1-C42
EC-326583	1-C43
EC-330308	3-C1
EC-332052	1-C27, 28
EC-334013	1-C31
EC-337306	1-C38, 39
EC-338411	3-C1
ED-200469	1-D3
ED-200469	1-D8, 9
ED-200469	1-D25, 26
ED-200469	2-D1 to 3
ED-200469	2-D5
ED-200749	1-D15
ED-323057	2-D4
ED-323534	1-D17
ED-330218	1-D20, 21
ED-330320	1-D16
ED-336805	1-D13
ED-337153	1-D4 to 7
ED-337153	1-D10
ED-337153	1-D12
ED-337153	1-D14
ED-337153	1-D22
ED-337153	1-D29
ED-337391	1-D1 to 4
ED-337391	4-1x
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ED-337751	1-D23
ED-337751	1-D27, 28
ED-337761	1-D24
ED-337990	1-D18, 19
ED-338096	1-D1, 2
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EF-258344	4-36x
EF-200952	4-30x
EF-309388	4-31x
EF-309391	4-33x
EF-310229	4-34x
EF-459843	4-32x
EF-623125	4-29x
EF-623125	4-35x
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EI-200938	1-IC3
EI-337593	4-4
EJ-324913	2-J4
EJ-329610	4-15
EJ-336885	1-J8
EJ-336885	1-J8
EJ-336886	1-J8
EJ-336886	1-J8
EJ-336915	2-J2
EJ-337404	2-J1
EJ-337405	4-17
EJ-337406	4-13
EJ-342935	4-2x
EJ-692908	4-44x
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EL-337757	1-IN1
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EO-336934	1-L1
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EO-336934	2-L2, 3
EO-337684	2-L1
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EP-337416	1-RL1
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ER-323075	1-R39, 40
ER-323075	1-R51
ER-323075	1-R59, 60
ER-323075	1-R90, 91
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ER-323352	2-R17
ER-324185	1-R35
ER-324337	1-R17
ER-324934	2-R27, 28
ER-328082	1-R47, 48
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ER-337100	2-R16
ER-337752	1-R32
ER-337754	1-R68, 69
ER-337754	1-R80
ER-337755	1-R74
ER-337756	1-FR3, 4
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ER-338000	1-FR2
ER-624756	1-R76
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ES-328787	3-SW1
ES-328788	3-SW1
ES-336909	3-SW1
ES-337317	4-6
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ES-337389	1-SW1
ES-337390	3-SW1
ES-337392	1-SW1
ES-337393	1-SW1
ES-337394	1-SW2
ES-337398	4-27
ES-337403	4-5
ES-337998	2-SW2
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ET-300931	1-TR22
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TT-301165	1-TR23
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ET-305463	1-TR15
ET-305463	1-TR18
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ET-307195	1-TR12 to 14
ET-307195	1-TR24
ET-307195	2-TR2, 3
ET-307195	2-TR7
ET-308866	1-TR4
ET-308977	2-TR8
ET-316171	1-TR16, 17
ET-328440	1-TR19
ET-328440	1-TR1
ET-337234	2-TR1
ET-337758	1-TR3
ET-337759	1-TR20, 21
ET-337760	1-TR25
ET-337760	2-TR9
ET-337984	1-TR2
ET-337985	1-TR9
ET-337986	1-TR10
EV-325629	1-VR1
EV-325630	1-VR2
EV-337308	1-VR1
EV-337987	1-VR3
EW-306427	4-38x
EW-306428	4-37
EW-328245	4-39x
EW-336923	4-40x
EW-336924	4-42x
EW-336926	4-41x
SA-332850	4-26
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SK-B336472G	5-5
SK-B336472H	5-6x
SK-B336472J	5-7
SK-B336472K	5-8x
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SK-336479B	5-2x
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SP-336440C	4-10x
SP-336440D	4-9x
SP-336440E	4-11x
SP-336440F	4-12x
SP-336441	4-25x
SP-336443A	5-29
SP-336443B	5-30x
SP-336465A	5-27
SP-336465B	5-28x
SZ-631945	4-43
ZG-313027	5-13x
ZG-336449	5-17x
ZG-336460	5-24x
ZS-308846	4-16
ZS-308846	4-18
ZS-322570	5-34
ZS-322580	5-35x
ZS-522865	4-14
ZW-305013	5-33x

Parts No.	Ref. No. & Symbol No.
BA-A2019A060A	1-1
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BA-A2019A060C	1-3
BA-A2019A060D	1-4
BA-A2019A060E	1-5
BA-A2019A060F	1-6
BA-A2019A060G	1-7
BA-A2019A060H	1-8
BA-A2019A060J	1-9
BA-A2019A060K	1-10
BA-A2019A120A	2-1
BA-A2019A120B	2-2
BD-A2019A020A	5-1
BD-A2019A020B	5-2x
BD-A2019A030A	5-12
BD-A2019A030B	5-13x
BD-B336500A	5-28
BD-B336500B	5-29x
BD-336496B	5-38x
BT-338023	4-8x
BT-338024	4-10x
BT-338025	4-9x
BT-338026	4-11x
BT-338028	4-12x
BT-338029	4-13x
BT-338030	4-7
EC-201643	1-C50, 51
EC-314688	3-C1
EC-316189	1-C53, 54
EC-320548	1-C42
EC-320548	1-C43
EC-320548	1-C44, 45
EC-320548	1-C46 to 49
EC-320548	3-C1
EC-324102	2-C7
EC-324103	2-C6
EC-326583	1-C42
EC-326583	1-C43
EC-330308	3-C1
EC-332052	1-C27, 28
EC-332052	2-C15, 16
EC-334013	1-C31
EC-338032	1-C59, 60
EC-338411	3-C1
ED-200469	1-D8, 9
ED-200469	1-D25, 26
ED-200469	1-D3
ED-200469	2-D1, 2
ED-200469	2-D3
ED-200469	2-D5
ED-306469	1-D17
ED-323057	2-D4
ED-328481	1-D11
ED-330218	1-D20, 21
ED-330218	2-D6, 7
ED-330320	1-D16
ED-336805	1-D13
ED-337153	1-D10
ED-337153	1-D12
ED-337153	1-D14
ED-337153	1-D22
ED-337153	1-D29
ED-337153	1-D4 to 7
ED-337391	1-D1 to 3
ED-337391	1-D4
ED-337391	4-2x
ED-337395	4-5x
ED-337751	1-D23
ED-337751	1-D27, 28
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EF-258344	4-46x
EF-303348	4-43x
EF-306949	4-42x
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EF-309392	4-44x
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EF-691007	4-39x
EF-691007	4-45x
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EJ-336885	1-J8
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EJ-337405	4-27x
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EO-336934	1-L1
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EP-337416	1-RL1
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ER-309781	2-R14
ER-311768	2-R15
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ER-322421	1-R41, 42
ER-323075	1-R39, 40
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ER-323075	1-R59, 60
ER-323075	1-R90, 91
ER-323351	2-R18
ER-323352	2-R17
ER-324185	1-R35
ER-324337	1-R17
ER-324934	2-R27, 28
ER-328082	1-R47, 48
ER-332225	1-FR1
ER-332225	2-FR1, 2
ER-333689	1-R52
ER-333698	1-R94, 95
ER-337100	2-R16
ER-337752	1-R32
ER-337754	R68, 69
ER-337754	1-R80
ER-337755	1-R74
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ER-338000	1-FR2
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ES-328788	3-SW1
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ES-337390	3-SW1
ES-337392	1-SW1
ES-337393	1-SW1
ES-337394	1-SW2
ES-337399	4-37
ES-337400	2-SW3
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ES-337998	2-SW2
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ET-305463	1-TR18
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ET-308977	2-TR8
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ET-337758	1-TR3
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ET-337760	1-TR25
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ET-337984	1-TR2
ET-337985	1-TR9
ET-337986	1-TR10
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EV-330725	1-VR1
EV-330843	1-VR2
EV-337309	4-1x
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EW-306428	4-28
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EW-336924	4-33x
EW-336926	4-32x
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SK-B336472B	5-6x
SK-B336472C	5-7
SK-B336472D	5-8x
SK-B336472E	5-17
SK-B336472F	5-18x
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SK-B336472J	5-21
SK-B336472K	5-22x
SK-B336472L	5-23
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SK-336470B	5-42x
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SK-336471B	5-35x
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SP-336440L	4-21x
SP-336440M	4-22x
SP-336443A	5-39
SP-336443B	5-40x
SP-336494	4-14x
SP-336496A	5-37
SP-336499A	5-32
SP-336499B	5-33x
SZ-631945	4-34
TA-336480	5-14x
TA-336501A	5-30
TA-336501B	5-31x
ZG-313027	5-27x
ZG-336460	5-11x
ZS-308846	4-23
ZS-322570	5-43
ZS-322580	5-44x
ZS-565942	4-16x
ZW-305013	4-47x

SECTION 4

SCHEMATIC DIAGRAM

MODEL AT-S61/L/J
MODEL AM-U41, AM-U61

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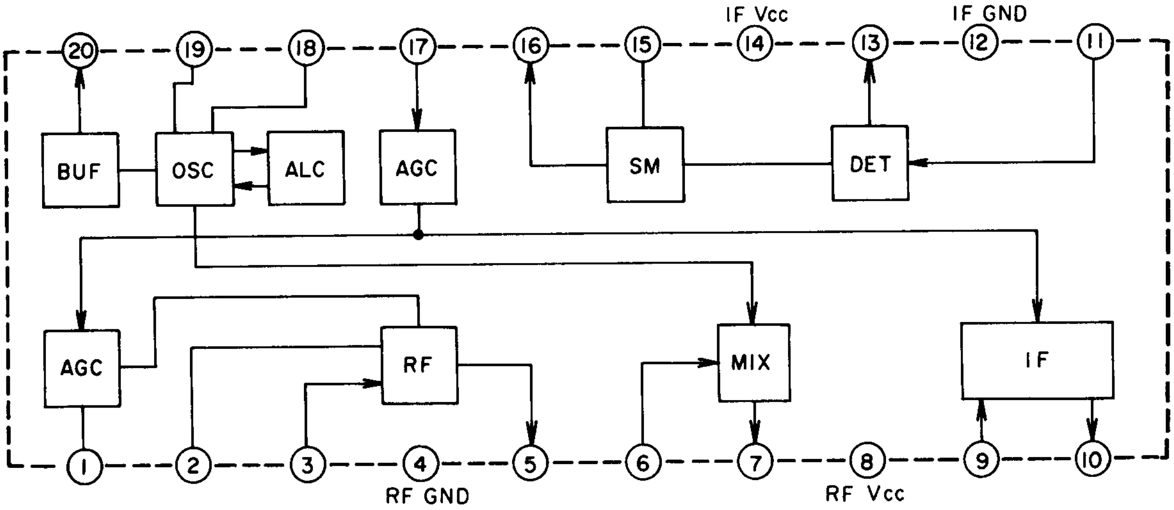
SCHEMATIC DIAGRAM OF ICs

LA1245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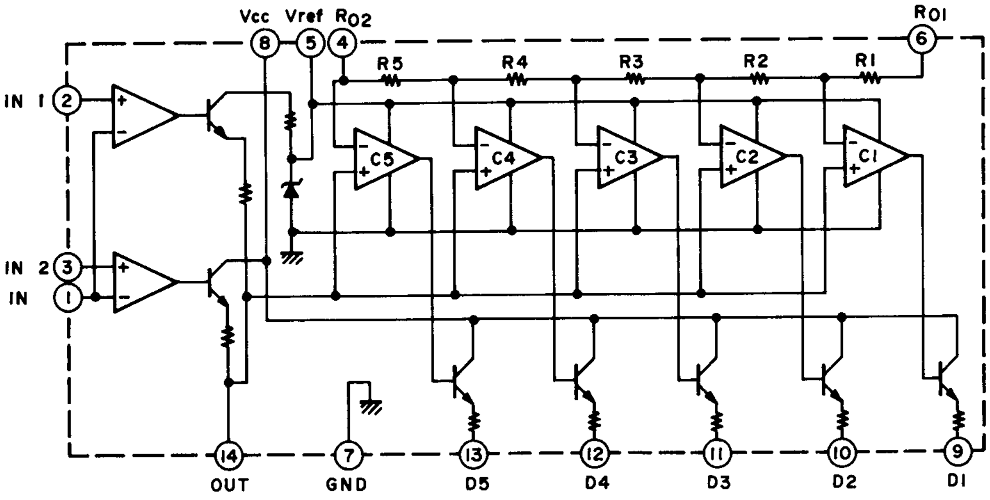
20
19
18
17
16
15
14
13
12
11
BUF
OSC
ALC
AGC
SM
DET
AGC
RF
MIX
IF
1
2
3
4
5
6
7
8
9
10
RF GND
RF Vcc

LB1426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IN 1
2
IN 2
3
IN
1
C5
C4
C3
C2
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12
11
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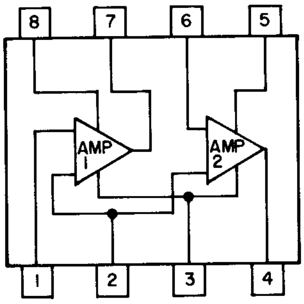
OUT
GND
D5
D4
D3
D2
D1

LA1222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7
6
5
AMP 1
AMP 2
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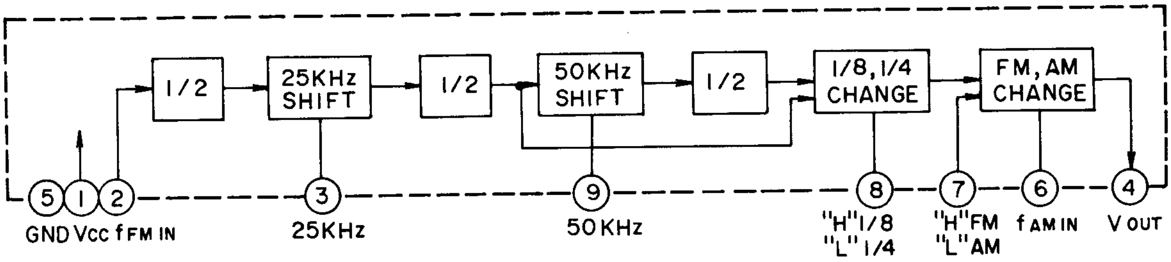
2
3
4

TD6102P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1/2
50KHz SHIFT
1/2
1/8, 1/4 CHANGE
FM, AM CHANGE
5
1
2
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3
25KHz
9
50KHz
8
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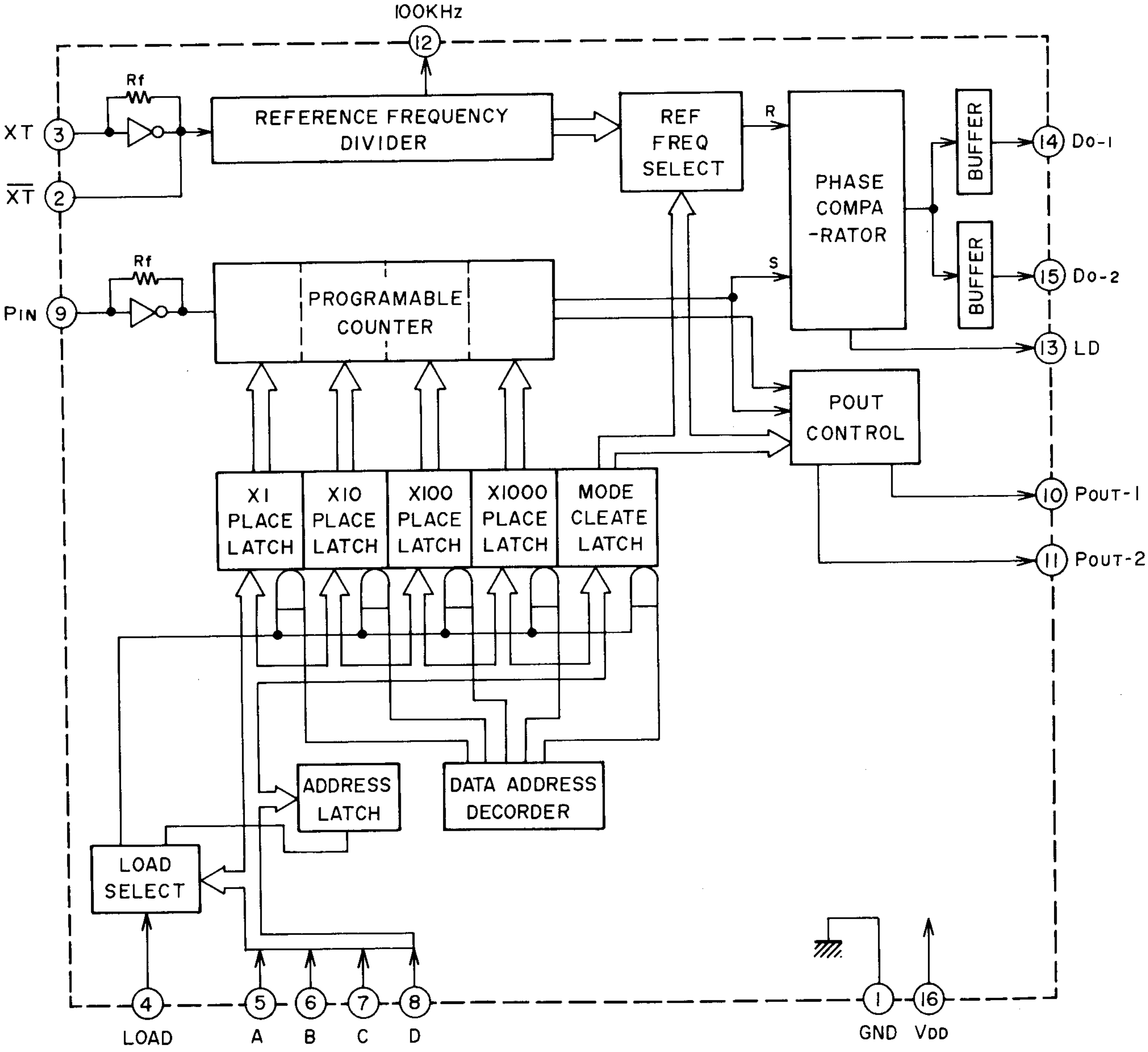
"L" 1/4
7
"H" FM
"L" AM
6
fAM IN
4
V OUT

TC9125BP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XT
3
XT
2
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REF FREQ SELECT
R
S
PHASE COMPA -RATOR
BUFFER
BUFFER
14
Do-1
15
Do-2
13
LD
Rf
PIN
9
PROGRAMABLE COUNTER
POUT CONTROL
10
POUT-1
11
POUT-2
X1 PLACE LATCH
X10 PLACE LATCH
X100 PLACE LATCH
X1000 PLACE LATCH
MODE CLEATE LATCH
ADDRESS LATCH
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C
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D
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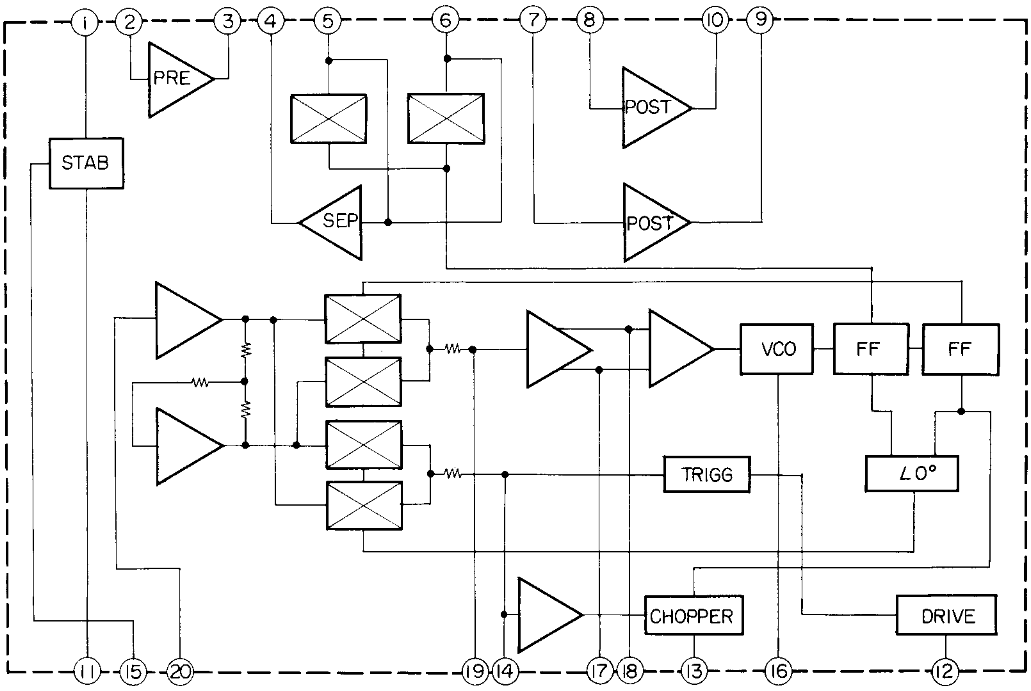
GND
16
VDD

LA3381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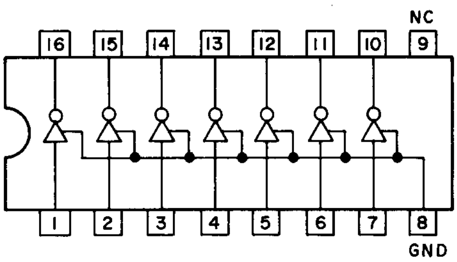
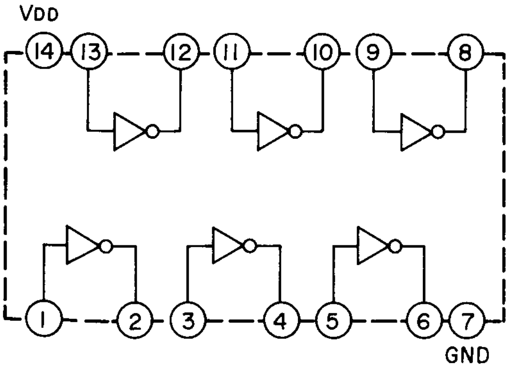
5
6
7
8
10
9
PRE
STAB
SEP
POST
POST
VCO
FF
FF
TRIGG
∠0°
CHOPPER
DRIVE
11
15
20
19
14
17
18
13
16
12

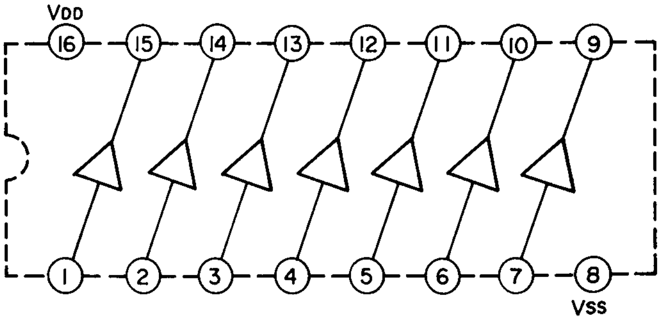
M54517


NC
16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8
GND

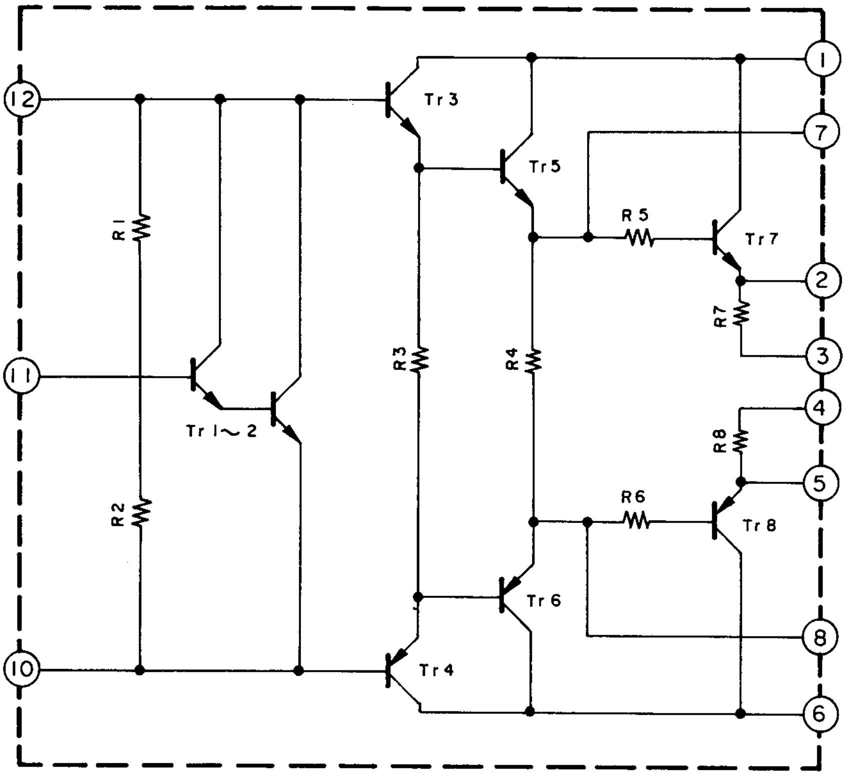
TC4069UB


VDD
14
13
12
11
10
9
8
1
2
3
4
5
6
7
GND

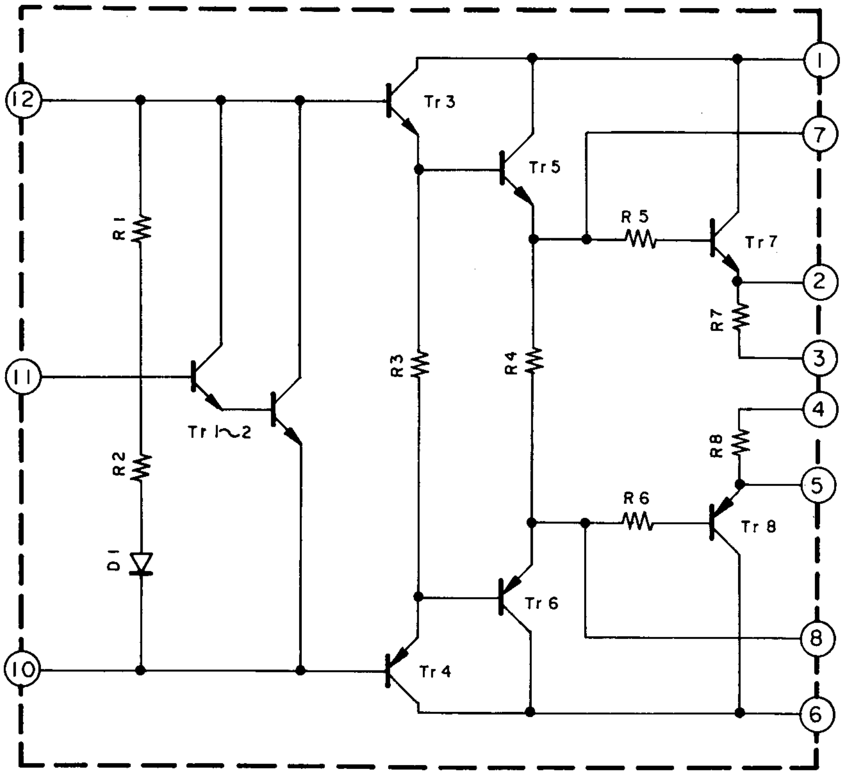
TC5066BP

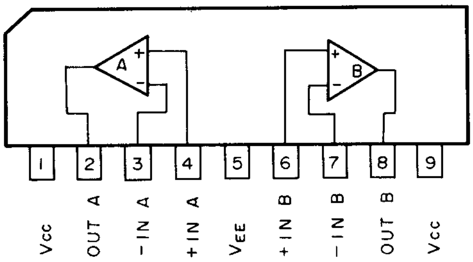

VDD
16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8
VSS

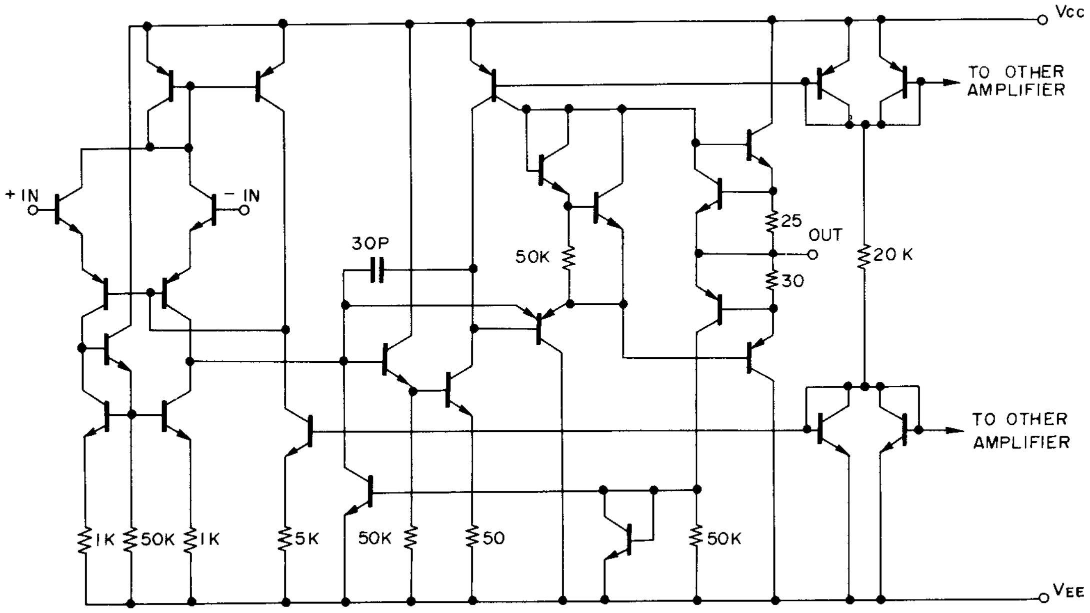
STK-1060II


1
7
2
3
4
5
8
6
12
11
10
Tr 3
Tr 5
Tr 7
Tr 1～2
Tr 6
Tr 4
Tr 8
R 1
R 2
R 3
R 4
R 5
R 6
R 7
R 8

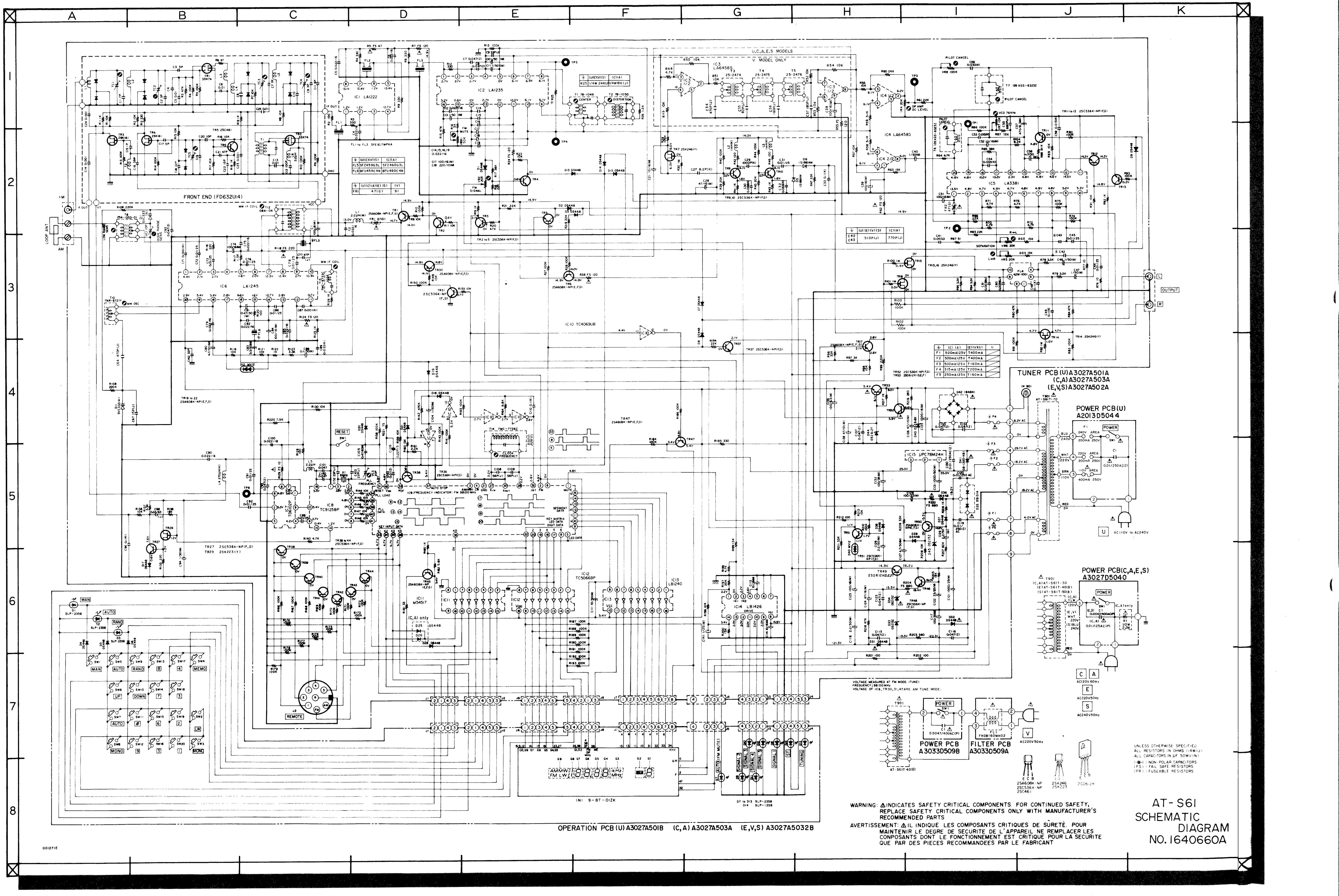
STK-1080II


1
7
2
3
4
5
8
6
12
11
10
Tr 3
Tr 5
Tr 7
Tr 1～2
Tr 6
Tr 4
Tr 8
R 1
R 2
R 3
R 4
R 5
R 6
R 7
R 8
D 1


A
B
+
−
1
2
3
4
5
6
7
8
9
Vcc
OUT A
− IN A
+ IN A
VEE
+ IN B
− IN B
OUT B
Vcc


Vcc
TO OTHER AMPLIFIER
+ IN
− IN
30P
50K
25
OUT
30
20 K
1K
50K
1K
5K
50K
50
50K
VEE
TO OTHER AMPLIFIER

(EACH AMPLIFIER)


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
FRONT END (FD632U14)
IC1 LA1222
IC2 LA1235
IC3 LA6458S
IC4 LA6458S
IC5 LA3381
IC6 LA1245
IC8 TC9125BP
IC10 TC4069UB
IC11 M54517
IC12 TC5066BP
IC13 LB1240
IC14 LB1426
IC15 µPC78M24H
U,C,A,E,S MODELS
V MODEL ONLY
LOOP ANT
FM
AM
OUTPUT
L
R
TUNER PCB (U) A3027A501A
(C,A) A3027A503A
(E,V,S) A3027A502A
POWER PCB (U)
A2013D5044
POWER PCB (C,A,E,S)
A3027D5040
POWER PCB
A3033D509B
FILTER PCB
A3033D509A
T901
POWER
SW1
C1
0.0047/400AC(P)
FL1
FK0B160MH02
AT-S61T-40(B)
U
AC110V to AC240V
C
A
AC120V 60Hz
E
AC220V 50Hz
S
AC240V 50Hz
V
AC220V 50Hz
RESET
REMOTE
MAN
AUTO
RAND
MEMO
UP
DOWN
MONO
AUTO (FM MUTE)
SIGNAL 1
SIGNAL 2
SIGNAL 3
SIGNAL 4
SIGNAL 5
ST
TUNING
D7 to D13 SLP-235B
D14 SLP-135B
IN1 9-BT-01ZK
AM MW
FM LW
kHz
MHz
E C B
2SA608K-NP
2SC536K-NP
2SC461
2SK246
2SK223
2SD612K
00127IE

VOLTAGE MEASURED AT FM MODE. (TUNE)
FREQUENCY; 98:00 MHz
VOLTAGE OF IC6, TR30, 31, 47 ARE AM TUNE MODE.

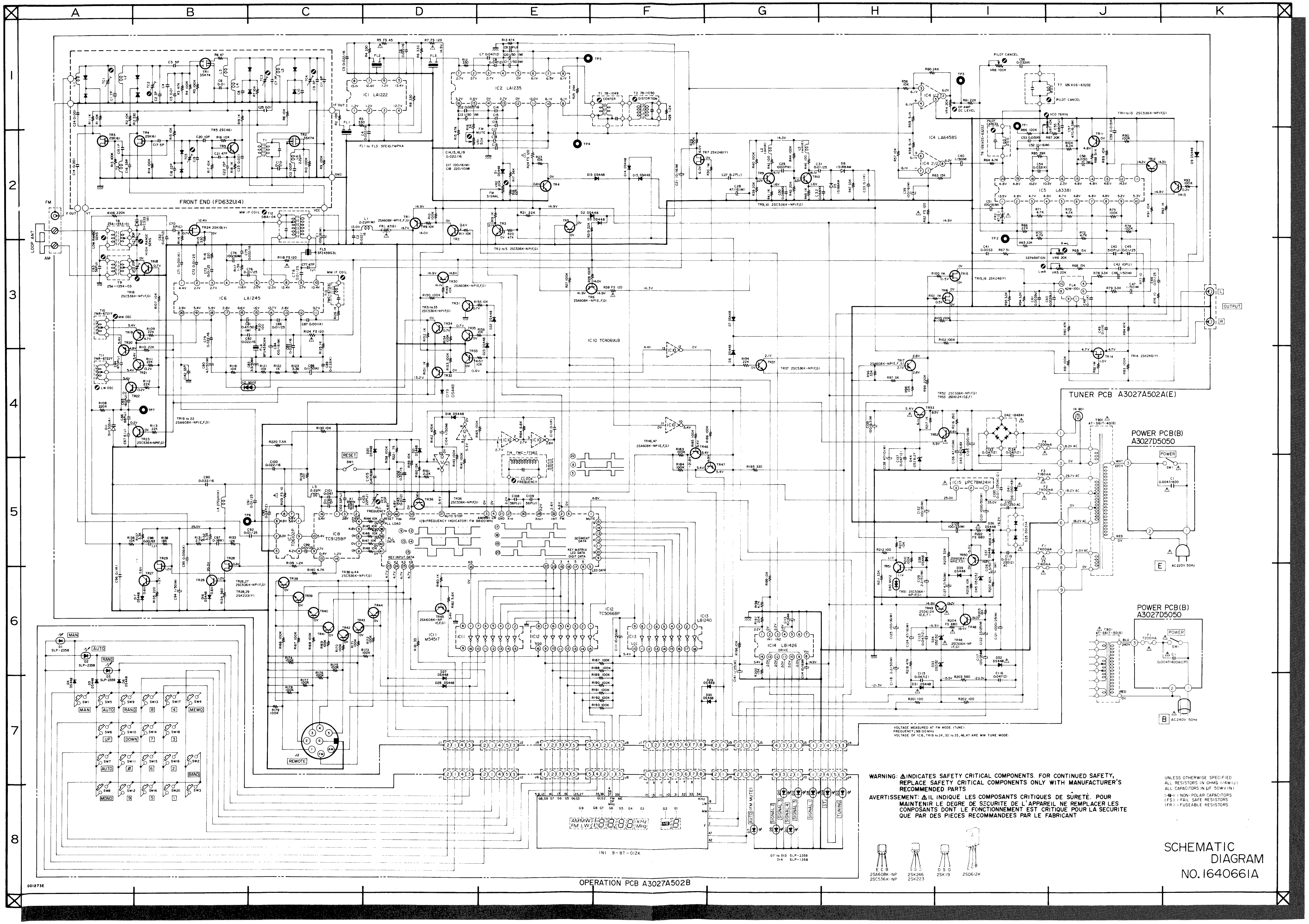
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN µF 50WV (N)
(⊣⊢) : NON-POLAR CAPACITORS
(FS) : FAIL SAFE RESISTORS
(FR) : FUSEABLE RESISTORS

OPERATION PCB (U) A3027A501B (C, A) A3027A503A (E,V,S) A3027A5032B

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

AT-S61
SCHEMATIC
DIAGRAM
NO. 1640660A


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
FRONT END (FD632U14)
IC1 LA1222
IC2 LA1235
IC4 LA6458S
IC5 LA3381
IC6 LA1245
IC8 TC9125BP
IC10 TC4069UB
IC11 M54517
IC12 TC5066BP
IC13 LB1240
IC14 LB1426
IC15 UPC78M24H
TP1
TP2
TP3
TP4
TP5
TP6
TP7
LOOP ANT
FM
AM
PILOT CANCEL
SEPARATION
OUTPUT
L
R
RESET
REMOTE
TUNER PCB A3027A502A(E)
POWER PCB(B)
A3027D5050
POWER
AC220V 50Hz
AC240V 50Hz
E
B
MAN
AUTO
RAND
UP
DOWN
MONO
MEMO
BAND
IN1 9-BT-012K
OPERATION PCB A3027A502B
E C B
2SA608K-NP
2SC536K-NP
S G D
2SK246
2SK223
D S G
2SK19
E C B
2SD612K
001273E

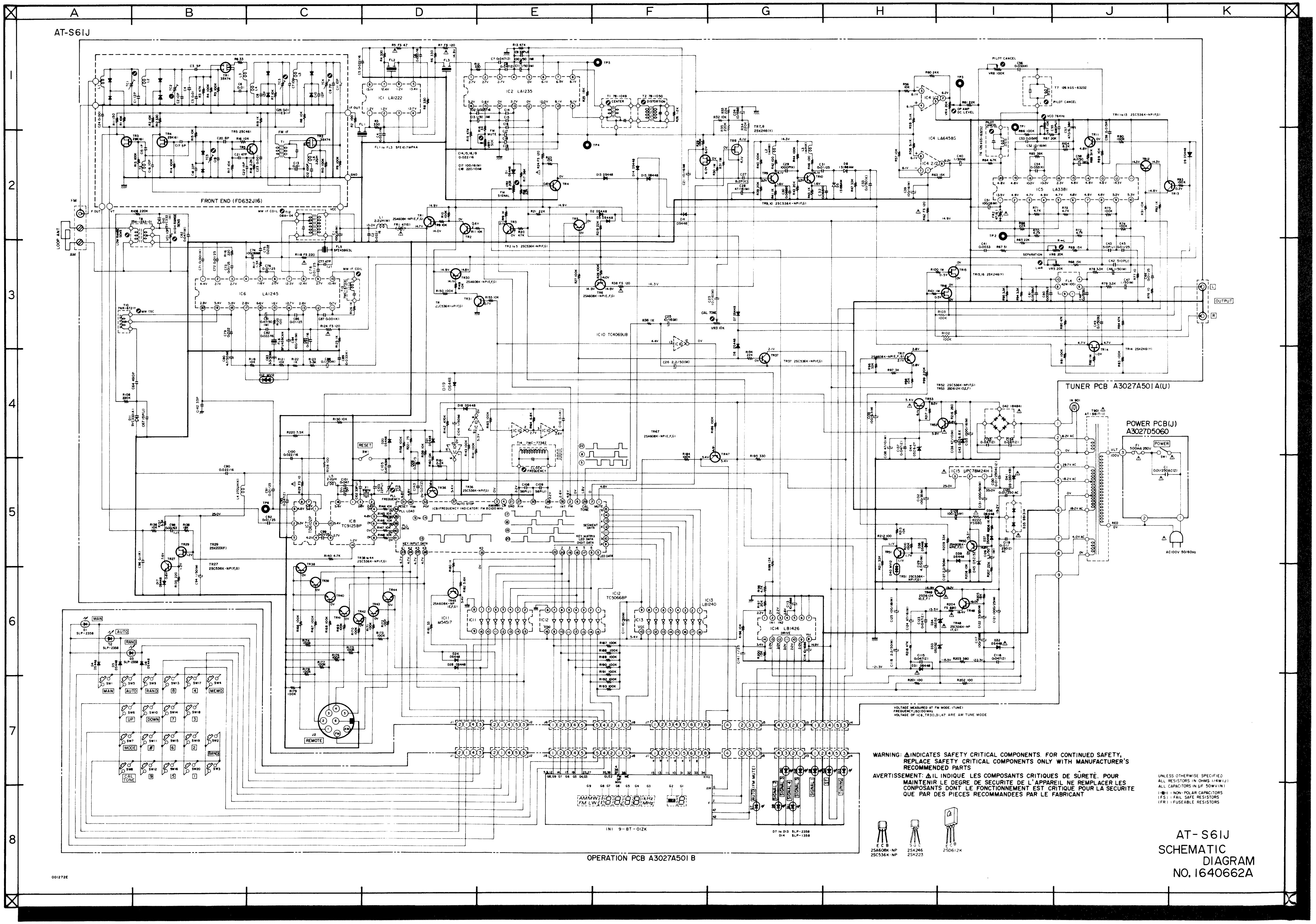
VOLTAGE MEASURED AT FM MODE. (TUNE)
FREQUENCY; 98:00 MHz
VOLTAGE OF IC6, TR19 to 24, 30 to 35, 46, 47 ARE MW TUNE MODE.

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(N)
(-||-) : NON-POLAR CAPACITORS
(FS) : FAIL SAFE RESISTORS
(FR) : FUSEABLE RESISTORS

SCHEMATIC
DIAGRAM
NO. 164066IA


AT-S61J
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
FRONT END (FD632J16)
LOOP ANT
FM
AM
IC1 LA1222
IC2 LA1235
IC4 LA6458S
IC5 LA3381
IC6 LA1245
IC8 TC9125BP
IC10 TC4069UB
IC11 M5457
IC12 TC5066BP
IC13 LB1240
IC14 LB1426
IC15 μPC78M24H
OUTPUT
L
R
TUNER PCB A3027A501A(U)
POWER PCB(J) A3027D5060
POWER
AC100V 50/60Hz
RESET
REMOTE
MAIN
AUTO
RAND
UP
DOWN
MODE
BAND
MEMO
CAL TONE
AUTO (FM MUTE)
SIGNAL
STEREO
TUNING
IN1 9-BT-01ZK
OPERATION PCB A3027A501B
E C B
2SA608K-NP
2SC536K-NP
S G D
2SK246
2SK223
E C B
2SD612K
001272E

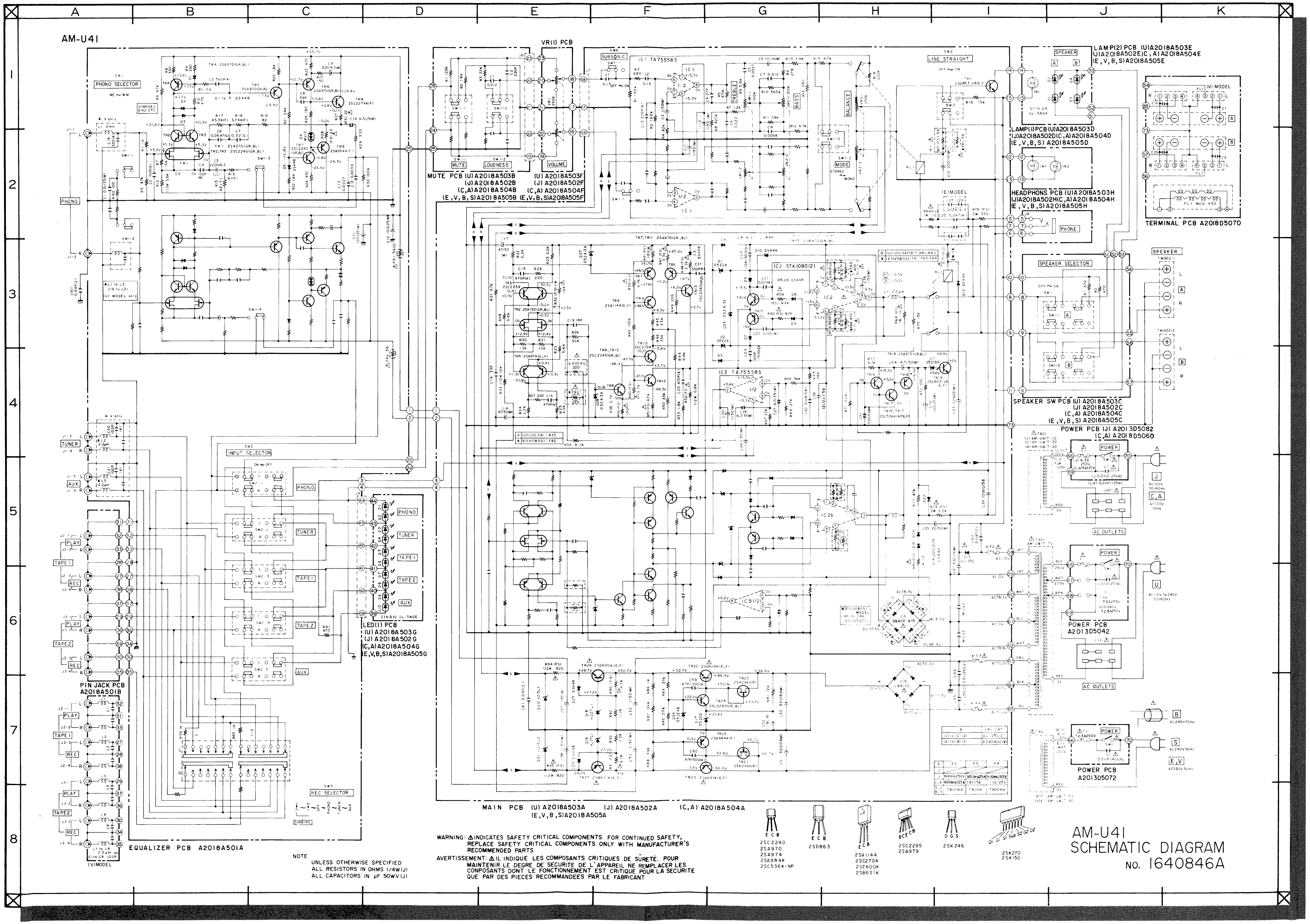
VOLTAGE MEASURED AT FM MODE. (TUNE)
FREQUENCY;80:00 MHz
VOLTAGE OF IC6, TR30, 31, 47 ARE AM TUNE MODE

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(N)
(—‖—) : NON-POLAR CAPACITORS
(FS) : FAIL SAFE RESISTORS
(FR) : FUSEABLE RESISTORS

AT-S61J
SCHEMATIC
DIAGRAM
NO. 1640662A


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
AM-U41
PHONO SELECTOR
PHONO
TUNER
AUX
PLAY
REC
TAPE 1
TAPE 2
PIN JACK PCB
A2018A501B
EQUALIZER PCB A2018A501A
INPUT SELECTOR
REC SELECTOR
DUBBING
LED(1) PCB
(U) A2018A503G
(J) A2018A502G
(C,A) A2018A504G
(E,V,B,S) A2018A505G
VR(1) PCB
MUTE
LOUDNESS
VOLUME
MUTE PCB (U) A2018A503B
(J) A2018A502B
(C,A) A2018A504B
(E,V,B,S) A2018A505B
(U) A2018A503F
(J) A2018A502F
(C,A) A2018A504F
(E,V,B,S) A2018A505F
SUBSONIC
IC1 TA75558S
TREBLE
BASS
BALANCE
MODE
LINE STRAIGHT
SPEAKER
LAMP(2) PCB (U) A2018A503E
(J) A2018A502E (C,A) A2018A504E
(E,V,B,S) A2018A505E
LAMP(1) PCB (U) A2018A503D
(J) A2018A502D (C,A) A2018A504D
(E,V,B,S) A2018A505D
HEADPHONES PCB (U) A2018A503H
(J) A2018A502H (C,A) A2018A504H
(E,V,B,S) A2018A505H
PHONE
TERMINAL PCB A2018D5070
IC2 STK1080(2)
IC3 TA75558S
SPEAKER SELECTOR
SPEAKER SW PCB (U) A2018A503C
(J) A2018A502C
(C,A) A2018A504C
(E,V,B,S) A2018A505C
POWER PCB (J) A2013D5082
(C,A) A2018D5060
POWER
AC OUTLETS
POWER PCB
A2013D5042
POWER PCB
A2013D5072
MAIN PCB (U) A2018A503A (J) A2018A502A (C,A) A2018A504A
(E,V,B,S) A2018A505A
E C B
2SC2240
2SA970
2SA974
2SA984K
2SC536K-NP
2SD863
2SA1144
2SC2704
2SD600K
2SB631K
B C E C B
2SC2295
2SA979
D G S
2SK246
D1 G1 S1 Sub S2 G2 D2
2SK270
2SK150

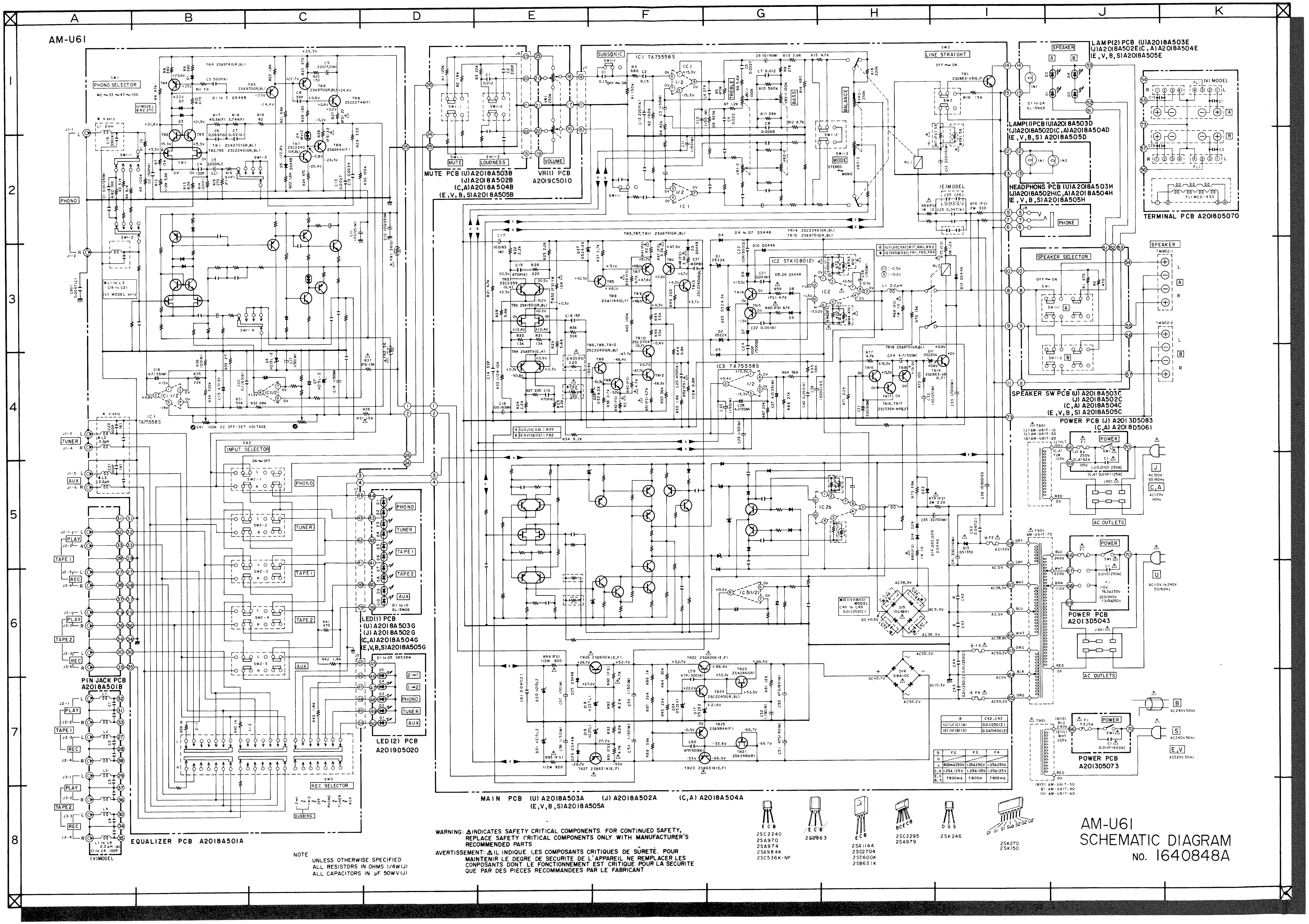
X	F2	F3	F4
U			
J	800mA250V	800mA250V	800mA250V
C, A	800mA125A	1A125A	1A125V
E, V, B, S	T800mA	T800m	T800mA

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

AM-U41
SCHEMATIC DIAGRAM
No. 1640846A


AM-U61
PHONO SELECTOR
PHONO
TUNER
AUX
PLAY
REC
TAPE 1
TAPE 2
INPUT SELECTOR
REC SELECTOR
DUBBING
EQUALIZER PCB A2018A501A
PIN JACK PCB A2018A501B
LED(1) PCB (U) A2018A503G (J) A2018A502G (C,A) A2018A504G (E,V,B,S) A2018A505G
LED(2) PCB A2019D5020
MUTE PCB (U) A2018A503B (J) A2018A502B (C,A) A2018A504B (E,V,B,S) A2018A505B
MUTE
LOUDNESS
VOLUME
VR(1) PCB A2019C5010
SUBSONIC
IC1 TA75558S
TREBLE
BASS
BALANCE
MODE
LINE STRAIGHT
IC2 STK1080(2)
IC3 TA75558S
MAIN PCB (U) A2018A503A (J) A2018A502A (C,A) A2018A504A (E,V,B,S) A2018A505A
LAMP(2) PCB (U) A2018A503E (J) A2018A502E (C,A) A2018A504E (E,V,B,S) A2018A505E
LAMP(1) PCB (U) A2018A503D (J) A2018A502D (C,A) A2018A504D (E,V,B,S) A2018A505D
HEADPHONES PCB (U) A2018A503H (J) A2018A502H (C,A) A2018A504H (E,V,B,S) A2018A505H
PHONE
TERMINAL PCB A2018D5070
SPEAKER
SPEAKER SELECTOR
SPEAKER SW PCB (U) A2018A503C (J) A2018A502C (C,A) A2018A504C (E,V,B,S) A2018A505C
POWER PCB (J) A2013D5083 (C,A) A2018D5061
POWER
AC OUTLETS
POWER PCB A2013D5043
POWER PCB A2013D5073
2SC2240
2SA970
2SA974
2SA984K
2SC536K-NP
2SD863
2SA1144
2SC2704
2SD600K
2SB631K
2SC2295
2SA979
2SK246
2SK270
2SK150

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

AM-U61
SCHEMATIC DIAGRAM
NO. 1640848A